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MPsrch_pp protein - protein database search, using Smith-Waterman algorithm

Run on: Tabular output not generated. Fri Sep 18 13:51:23 1998; MasPar time 9.06 Seconds 664.722 Million cell updates/sec

Description:
Perfect Score:
Sequence: >US-08-765-588-8 (1-143) from US08765588.pep 1078

1 MSPLLRRLLLAALLQLAPAQ......CRPKKKDSAVKPDRCRKLRR 143

Scoring table: PAM 150 Gap 11

Searched: 140555 segs, 42109429 residues

Post-processing: Minimum Match 0% Listing first 45 summaries

Database:

1:sp_fungi 2:sp_human 3:sp_invertebrate 4:sp_mammal 5:sp_mhc 6:sp_organelle 7:sp_phage 8:sp_plant 9:sp_bacteria 10:sp_rodent 11:sp_virus 12:sp_vertebrate 13:sp_unclassified

Statistics: Mean 40.352; Variance 65.917; scale 0.612

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Reg
10 10 10 10 10 10 10 10 10 10 10 10 10 1	Result No.
1023 6247 6207 395 337 337 337 337 337 337 337 337 337 1198 1198 1198 1198 1198 1198 1198 119	Score
84.6 34.6 34.6 34.6 34.6 34.6 36.6 36.6 3	Query Match
207 207 1148 1148 2169 2169 217 2189 358 358 358 358 358 358 358 358 358 358	Length
110 110 112 112 113 114 110 110 110 110 110 110 110 110 110	B .
Q16528 Q16528 Q15485 Q142571 Q142571 Q142572 Q91420 Q1420 Q91420 Q91420 Q91420 Q91434 Q91434 Q91435 Q91435 Q91435 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535 Q91535	Ħ
VEGF RELATED FACTOR IS VASCULAR ENDOTHELIAL G PLACENTA GROWTH FACTOR VASCULAR ENDOTHELIAL G C-SIS PROTO-ONCOGENE (PLATEL) POLYPROTEIN PRECURSOR C-SIS ONCOGENE (PLATEL) POGF PROTEIN (FRAGMENT VASCULAR ENDOTHELIAL G GLYCINE DEHYDROGENASE GLUTAMATE DEHYDROGENASE GLUTAMATE DEHYDROGENASE GLUTAMATE DEHYDROGENASE	Description
1.25e-224 1.25e-122 1.25e-122 1.95e-67 2.00e-61 3.20e-61 1.06e-52 6.32e-40 3.07e-22 7.03e-22 7.03e-22 1.80e-16 3.14e-16 8.10e-16 8.10e-16 8.10e-16 1.37e-11 1.37e-11 1.37e-11 1.18e-06 1.71e-02 7.48e-02	Pred. No.

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1 MSPLLRRLLLAALLQLAPAQAPVSQPDAPGHQRKVVSWIDVYTRATCQPREVVVPLTVEL 60

******* (MT)

Release 3.1A John F. Collins, Biocomputing Research Unit. Copyright (c) 1993-1998 University of Edinburgh, U.K. Distribution rights by Oxford Molecular Ltd

Run on: MPsrch_pp protein - protein database search, using Smith-Waterman algorithm Fri Sep 18 13:50:48 1998; MasPar time 5.20 Seconds 689.290 Million cell updates/sec

Description: Perfect Score: >US-08-765-588-8 (1-143) from US08765588.pep 1078 1 MSPLLRRLLLAALLQLAPAQ......CRPKKKDSAVKPDRCRKLRR 143

Sequence:

Tabular output not generated.

Scoring table: PAM 150 Gap 11

Searched: 69111 segs, 25083644 residues

Post-processing: Minimum Match 0% Listing first 45 summaries

Database: swiss-prot35. 1:swiss1

Statistics: Mean 42.257; Variance 63.671; scale 0.664

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Resu
222118 222118	101
947 383 375 373 373 373 371 373 373 371 372 373 371 371 371 174 177 177 177 177 177 177 177 177 1	Score 1023
334.66 34.68 34.66 334.66 334.66 334.66 335.88 34.66 35.88 35.88 36.88 36.88 36.88 36.88 36.88	Query Match
1488 1146 2115 2115 1190 1190 1190 1190 1190 1190 1190 1	Length
	1 B
VEGE_SHEEP VEGE_RAT VEGE_MOUSE VEGE_HUMAN VEGE_HUMAN VEGE_CAVPO PLGE_HUMAN VEGE_COTUN VEGE_COTUN VEGE_COTUN VEGE_COTUN VEGE_COTUN VEGE_GOTUN VE	ID VEGB_HUMAN
VASCULAR ENDOTHELIAL G VASCULAR ENDOTHELIAL G PLACENTA GROWTH FACTOR VASCULAR ENDOTHELIAL G VASCULAR ENDOTHELIAL G	ν~ ; <u>μ</u>
2.76e 69 3.16e 67 1.03e 66 1.03e 66 1.03e 66 1.03e 66 1.16e 64 7.56e 69 1.182e 50 1.182e 50 1.182e 10 1.182e 11 1.182e 1	Pred. No. 3.01e-242

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1 MSPLLRRLLLAALLQLAPAQAPVSQPDAPGHQRKVVSWIDVYTRATCQPREVVVPLTVEL 60

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83	83	& 3	83	83	83	83	83	83	84	84	85	86	86	87	88	90	91	91	157	163	164
7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.8	7.8	7.9	8.0	8.0	8.1	8.2	8. 3	8.4	. 8 . 4	14.6	15.1	15.2
1110	109	399	397	396	395	394	393	174	941	916	60	649	567	411	598	539	493	411	241	226	211
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VGLM_INSV	PDM1_DROME	P2X1_RAT	OMPN_CHLTR	OMPA_CHLTR	OMPF_CHLTR	OMPB_CHLTR	OMPL_CHLTR	YY19_HUMAN	GCSP_MYCTU	SCRB_LIMPO	MT3_PICGL	YAY3_SCHPO	CCB2_HUMAN	TXOX MOUSE	CYSJ_SALTY	LI14_CAEEL	ACHE_HUMAN	DHE3_VITVI	PDGB_SHEEP	PDGA_XENLA	PDGA_HUMAN
M POLYPROTEIN PRECURSO	NUBBIN PROTEIN (TWAIN	P2X PURINOCEPTOR 1 (AT	MAJOR OUTER MEMBRANE P	MAJOR OUTER MEMBRANE P	MAJOR OUTER MEMBRANE P	OUTER	OUTER	HYPOTHETICAL Y-CHROMOS	PROBABLE GLYCINE DEHYD	BETA SCRUIN.	METALLOTHIONEIN-LIKE P	HYPOTHETICAL 74.5 KD P	DIHYDROPYRIDINE-SENSIT	PROTEIN-LYSINE 6-OXIDA	SULFITE REDUCTASE (NAD		ACETYLCHOLINE RECEPTOR	GLUTAMATE DEHYDROGENAS	PLATELET-DERIVED GROWT	PLATELET-DERIVED GROWT	
1.52e+00	1.52e+00	1.52e+00	1.52e+00	1.52e+00	1.52e+00	1.52e+00	1.52e+00	1.52e+00	1.07e+00	1.07e+00	7.51e-01	5.26e-01	5.26e-01	3.67e-01	2.55e-01	1.22e-01	8.40e-02	8.40e-02	1.54e-14	7.81e-16	4.74e-16

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Run on: MPsrch_pp protein - protein database search, using Smith-Waterman algorithm

Tabular output not generated. Fri Sep 18 13:49:30 1998; MasPar time 7.64 Seconds 684.018 Million cell updates/sec

Description: Title: Sequence: >US-08-765-588-8
(1-143) from US08765588.pep
1078
1 MSPLIRRLILAALLQLAPAQ.....CRPKKKDSAVKPDRCRKLRR 143

Scoring table: PAM 150 Gap 11 120441 segs, 36531193 residues

Post-processing: Minimum Match 0%
Listing first 45 summaries

pir56 1:pir1 2:pir2 3:pir3 4:pir4 5:nr13d Mean 40.311; Variance 76.368; scale 0.528

Statistics:

Database:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result	Score	Query Match	Length	8	Ħ	Description	Pred. No.
ப	947	87.8	188	2	JC4680	vascular endothelial	9.64e-177
N	947	87.8	207	N	3		. 64e-
ω	383	35.5	146	N	S57956		2.14e-55
4	375	34.8	120	N	A33787	vascular endothelial	9.54e-54
G	375	34.8	190	N	A35987	glioma-derived vascul	9.54e-54
đ	373	•	214	ຎ	A44881	vascular endothelial	2.46e-53
7	373	٠	232	Ŋ	A41551	vascular endothelial	2.46e-53
· œ	371	34.4	190	N	S52130	-	•
	371	34.4	. 190	N	B44881	vascular endothelial	•
10	365	33.9	190	N	B40080	vascular endothelial	1
: =	318	•	149	N	A41236	placental growth fact	
12	302		133	N	B49530	vascular endothelial	ω
13	275	25.5	158	N	A56125	placental growth fact	1.55e-33
14	264		128	N	151295	vascular endothelial	2.27e-31
	175		419	N	S69207	vascular endothelial	1.50e-14
16	174	16.1	148	N	D49530	16K vascular endothel	2.26e-14
17	174	16.1	225	N	S25097	platelet-derived grow	2.26e-14
. L	171	15.9	166	N	JN0248	platelet-derived grow	7.79e-14
1 <u>9</u>	171	15.9	198	N	JS0735	platelet-derived grow	7.79e-14
2 2	170	15.8	161	N	I38108	platelet-derived grow	1.17e-13
12	170	15.8	185	N	S58383	hypothetical protein	1.17e-13
22	170	15.8	226	H	SSAWAL		1.17e-13
23	.170	15.8	230	N	A55030	platelet-derived grow	1.17e-13

4.5	44	4.	4.	4.	4	ω	38	· w	3	· ω	ω	· Lu	ω	31	ω	Ņ	2	ν	20	Ń	
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8.2	8.2	ω.	ω.	8.4	8.4	8.4	3.5				4.5	4.9	5.1	5.1	•		5.2	5.2	5.6	5	
604	599	539	537	493	411	36	196	68	66	63	271	196	226	215	200	211	197	196	245	241	-
N	Ŋ	N	N	N	2	N	2	S	υı	U	N	N	N	N	N	ם	N	N	_	H	
A42044	A34231	A40581	B40581	S34775	S54797	A60706	A48851	1PDGA2	1PDGC2	1PDGB2	A25669	A37359	I51550	S08220	I51551	PFHUG1	S25096	B28964	TVCTSS	PFMSGB	
	sulfite reductase (NA	embryonic nuclear pro	embryonic nuclear pro	nicotinic acetylcholi	glutamate dehydrogena	vascular endothelial		Platelet-derived grow		Platelet-derived grow				platelet-derived grow		platelet-derived grow	THE CONTRACT STATES				
1.57e+00	1.57e+00	8.51e-01	8.51e-01	6.23e-01	6.23e-01	6.23e-01	2.64e-09	1.13e-10	1.13e-10	1.13e-10	3.41e-11	4.58e-12	2.04e-12	2.04e-12	2.04e-12	1.36e-12	1.36e-12	1.36e-12	2.66e-13	2.66e-13	F. F. G +-

	61 121 121
87.8%; Score 947; DB 2; Length 188; 87.2%; Pred. No. 9.54e-177; vative 10; Mismatches 8; Indels 0; Gag .OLARTOAPVSOFDGPSHOKKVVPMIDVYARATCOPREVVVPLSMEL.	Best Local Similarity Matches 123; Conses Db 1
vrf 19 137/2 #domain sig #product ve factor ve flength 188 #mm	#gene #map_position #introns #EATURE 1-21 22-188 SUMMARY
##molecule_type mkNA ##residues 1-188 ##label TOW ##cross-references GB:U43837; NID:g1314335; PID:g1314336 This factor is a mitogen, that is selective for endothelial cells, and belongs to a family of growth factor. This transcript is differentially spliced to produce two major isoforms, vascular endothelial growth factors 167 and VEGF 186.	##molecule ##residues ##cross re COMMENT This and dif end cenerics
Nordenskjoeld, M.; Weber, G.; Hayward, N. Biochem. Biophys. Res. Commun. (1996) 220:922-928 Characterization of the murine VEGF-related factor gene JC4680	#journal #title #accession
TO Sep-1997 JC4680 JC4679 Townson, S.; Lagercrantz, J.; Grimmond, S.; Silins, G.	ACCESSIONS REFERENCE #authors
P#449	RESULT 1 ENTRY TITLE ALTERNATE_NAMES ORGANISM DATE

.1A John F. Collins, Biocomputing Resea	e 3.1A John F. Collins, Blocomputing Researcy triples of Edinburgh, ght (c) 1993-1998 University of Edinburgh, ght (c) 1993-1998 University of Edinburgh Life in Frotein database search, using Smith-Fri Sep 18 13:53:16 1998; MasPar time 9.07	Post-processing: Minimum Match 0% Listing first 45 summaries	3.Database: a-pending 1:p9 2:U60 3:U7 4:U80 5:U81 6:U82 7:U83 8:U84 9:U85 10:U86 11:U87 12:U88 13:U89 14:U90 15:U91 16:NEWP 17:NEWU6 18:NEWU7 19:NEWU8 20:NEWU9	Statistics: Mean 29.808; Variance 121.862; scale 0.245	Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.		Score Match Length DB ID Description Pred. N	1023 94.9 188 9 US- 1023 94.9 188 10 US- 1023 94.9 188 11 US- 1023 94.9 188 11 US- 1023 94.9 188 10 US- 1024 Sequence 57, Applicati 6	1023 94.9 188 9 US Sequence 11, Applicati 6 1023 94.9 188 9 US Sequence 11, Applicati 6 1023 94.9 188 9 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 9 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15, Applicati 6 1023 94.9 207 10 US Sequence 15 Policati 6 1023 94.9 207 10 US Sequence 15 Policati 6 1023 94.9 207 10 US Sequence 15 Policati 6 1023 94.9 207 10 US Sequence 15 Policati 6 1023 94.9 207 10 US Sequence 15 Policati 6 1023 94.9 207 10 US Sequence 15 Policati 6 1023 94.9 207 10 US Sequence 15 Polic	1023 94.9 207 9 US- 1026 12 US- 1027 950 88.1 188 12 US- 1028 947 87.8 188 19 US- 1029 948 948 95	947 87.8 188 9 US- Sequence 5, Applicatio 4.4
Distribution rights by Oxford Molecular Ltd rch_pp protein - protein database search, using Smith-Waterman on: Fri Sep 18 13:53:16 1998; MasPar time 9.07 Seconds 498.946 Million cell upd			Scoring table: PAM 150 Gap 11 Searched: 288199 seqs, 31643258 Post-processing: Minimum Match 0% Listing first 45 summa	Scoring table: PAM 150 Gap 11 288199 seqs, 31643258 residues Post-processing: Minimum Match 0% Listing first 45 summaries Listing first 45 summaries 1:P9 2:U60 3:U7 4:U80 5:U81 6:U82 7:U83 8:U84 10:U86 11:U87 12:U88 13:U89 14:U90 15:U91 16:N	Scoring table: PAM 150 Gap 11 Gap 11 PAM 150 Post-processing: Minimum Match 0% Listing first 45 summaries Listing first 45 summaries Lip 2:050 3:07 4:080 5:081 6:082 7:083 8:084 10:086 11:087 12:088 13:089 14:090 15:091 16:NEWU7 19:NEWU8 20:NEWU9 16:NEWU7 19:NEWU8 20:NEWU9 16:NEWU7 19:NEWU8 20:NEWU9 16:NEWU9 15:091 16:NEWU9 15:091 16:NEWU9 15:091 16:NEWU9 17:NEWU8 20:NEWU9 20:NEWU9 16:NEWU9 17:NEWU8 20:NEWU9 16:NEWU9 18:NEWU7 19:NEWU8 20:NEWU9 16:NEWU9	Post-processing: Minimum Match 08 Listing first 45 summaries **Database: a-pending 1:09 2:006 3:07 4:080 5:081 6:082 7:083 8:084 9:10:086 11:087 12:088 13:089 14:090 15:091 16:NEW 17:NEWU6 18:NEWU7 19:NEWU8 20:NEWU9 Statistics: Mean 29.808; Variance 121.862; scale 0.245 Pred. No. is the number of results predicted by chance to have score greater than or equal to the score of the result being and is derived by analysis of the total score distribution.	Scoring table: PAM 150 Gap 11 Post-processing: Minimum Match 08 Listing first 45 summaries 1:p9 2:U50 3:U7 4:U80 5:U81 6:U82 7:U83 8:U84 9:10:U86 11:U87 12:U88 13:U89 14:U90 15:U91 16:NEW 17:NEWU6 18:NEWU7 19:NEWU8 20:NEWU9 Statistics: Mean 29.808; Variance 121.862; scale 0.245 Pred. No. is the number of results predicted by chance to have score greater than or equal to the score of the result being and is derived by analysis of the total score distribution. SUMMARIES	Scoring table: PAM 150 Gap 11 288199 seqs, 31643258 residues Post-processing: Minimum Match 0% Listing first 45 summaries 1:P9 2:U60 3:U7 4:U80 5:U81 6:U82 7:U83 8:U84 9:U85 10:U86 11:U87 12:U88 13:U89 14:U90 15:U91 16:NEWD 17:NEWU6 18:NEWU7 19:NEWU8 20:NEWU9 Statistics: Mean 29:808; Variance 121.862; scale 0.245 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printe and is derived by analysis of the total score distribution. SUMMARIES Result Ouery No. Score Match Length DB ID Description Pred.	Scoring table: PAM 150 Gap 11 288199 seqs, 31643258 residues Post-processing: Minimum Match 0% Listing first 45 summaries 1:P9 2:U60 3:U7 4:U80 5:U81 6:U82 7:U83 8:U84 9:U8. 10:U86 11:U87 12:U88 13:U89 14:U90 15:U91 16:NEWP 17:NEWU6 18:NEWU7 19:NEWU8 20:NEWU9 Statistics: Mean 29.808; Variance 121.862; scale 0.245 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being properties and is derived by analysis of the total score distribution. SUMMARIES Result 1 1023 94.9 188 9 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11, Applicati 6 1023 94.9 188 10 US-1 Sequence 11 1023 94.9 188 10	Scoring table: pam 150 Gap 11 288199 seqs, 31643258 residues Post-processing: Minimum Match 0%	Scoring table: pAM 150
Distribution rights by Oxford Molecular Ltd rch_pp protein - protein database search, using Smith-Waterman on: Fri Sep 18 13:53:16 1998; MasPar time 9.07 Seconds ular output not generated. 18: 195-08-765-588-8 fect Score: 1078 1078 1078 1078 1078 1078 1078 1078	Tabular output not generated. Title: >US-08-765-588-8 Description: (1-143) from US08765588.pep Perfect Score: 1078 Sequence: 1 MSPLLRRLLLAALLQLAPAQCRPKKKDSAVI		Post-processing: Minimum Match 0% Listing first 45 summarie	Post-processing: Minimum Match 08 Listing first 45 summaries i.Database: a-pending 1:P9 2:U60 3:U7 4:U80 5:U81 6:U82 7:U83 8:U84 10:U86 11:U87 12:U88 13:U89 14:U90 15:U91 16:N	Post-processing: Minimum Match 0% Listing first 45 summaries i.Database: a-pending 1: 199 2: U60 3: U7 4: U80 5: U81 6: U82 7: U83 8: U84 10: U86 11: U87 12: U88 13: U89 14: U90 15: U91 16: N 17: NEWU6 18: NEWU7 19: NEWU8 20: NEWU9 Statistics: Mean 29.808; Variance 121.862; scale 0.245	Post-processing: Minimum Match 08 Listing first 45 summaries **Database: a-pending	Post-processing: Minimum Match 08 Listing first 45 summaries Listing first 45 summaries 1:p9 2:U60 3:U7 4:U80 5:U81 6:U82 7:U83 8:U84 9: 10:U86 11:U87 12:U88 13:U89 14:U90 15:U91 16:NEW 17:NEWU6 18:NEWU7 19:NEWU8 20:NEWU9 Statistics: Mean 29:808; Variance 121:862; scale 0.245 Pred. No. is the number of results predicted by chance to hav score greater than or equal to the score of the result being and is derived by analysis of the total score distribution. SUMMARIES	Post-processing: Minimum Match 0% Listing first 45 summaries i.Database: a-pending 1:P9 2:U60 3:U7 4:U80 5:U81 6:U82 7:U83 8:U84 9:U85 10:U86 11:U87 12:U88 13:U89 14:U90 15:U91 16:NEWP 17:NEWU5 18:NEWU7 19:NEWU8 20:NEWU9 Statistics: Mean 29.808; Variance 121.862; scale 0.245 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printe and is derived by analysis of the total score distribution. SUMMARIES Result Query No. Score Match Length DB ID Description Pred.	Post-processing: Minimum Match 08 Listing first 45 summaries Listing first 45 summaries 1:P9 2:U60 3:U7 4:U80 5:U81 6:U82 7:U83 8:U84 9:U8: 10:U86 11:U87 12:U88 13:U89 14:U90 15:U91 16:NEWP 17:NEWU6 18:NEWU7 19:NEWU8 20:NEWU9 Statistics: Mean 29.808; Variance 121.862; scale 0.245 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being properties of the total score distribution. SUMMARIES Result Ouery Match Length DB ID Description Properties of the score of the score of the result being properties of the total score distribution. SUMMARIES Result Ouery Match Length DB ID Description Properties of Sequence 11, Applicati 6 1023 94.9 188 10 US-10 Sequence 11, Applicati 6 1023 94.9 188 10 US-10 Sequence 11, Applicati 6 1023 94.9 188 10 US-10 Sequence 11, Applicati 6 1023 94.9 188 10 US-10 Sequence 11, Applicati 6 1023 94.9 188 10 US-10 Sequence 11, Applicati 6 1023 94.9 188 10 US-10 Sequence 11, Applicati 6 1023 94.9 188 10 US-10 Sequence 11, Applicati 6 1023 94.9 188 10 US-10 Sequence 11, Applicati 6 1023 94.9 188 10 US-10 Sequence 11, Applicati 6 1023 94.9 188 10 US-10 Sequence 11, Applicati 6 1023 94.9 188 10 US-10 Sequence 11, Applicati 6 1023 94.9 188 10 US-10 Sequence 11, Applicati 6 1023 94.9 188 10 US-10 Sequence 11, Applicati 6 1023 94.9 188 10 US-10 Sequence 11, Applicati 6 1023 94.9 188 10 US-10 Sequence 11, Applicati 6 10 1023 94.9 188 10 US-10 Sequence 11, Applicati 6 10 1023 94.9 188 10 US-10 Sequence 11, Applicati 6 10 1023 94.9 188 10 US-10 Sequence 11, Applicati 6 10 1023 94.9 188 10 US-10 Sequence 11, Applicati 6 10 1023 94.9 188 10 US-10 Sequence 11, Applicati 6 10 1023 94.9 188 10 US-10 Sequence 11, Applicati 6 10 1023 94.9 188 10 US-10 Sequence 11, Applicati 6 10 1023 94.9 188 10 US-10 Sequence 11 10 10 10 10 10 10 10 10 10 10 10 10	## Post-processing: Minimum Match 08 Listing first 45 summaries Lipatabase:	Description Description

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Run on: MPsrch_pp protein - protein database search, using Smith-Waterman algorithm

Tabular output not generated. Fr1 Sep 18 13:52:52 1998; MasPar time 2.12 Seconds 475.687 Million cell updates/sec

Description:
Perfect Score:
Sequence: Scoring table: PAM 150 Gap 11 >US-08-765-588-8
(1-143) from US08765588.pep
1078
1 MSPLLRRLLLAALLQLAPAQ......CRPKKKDSAVKPDRCRKLRR 143

Title:

Searched: 77021 seqs, 7058996 residues

Post-processing: Minimum Match 0% Listing first 45 summaries

a-issued 1:5_COMB 2:PCT9_COMB 3:backfiles1

Database:

Statistics: Mean 28.064; Variance 116.805; scale 0.240

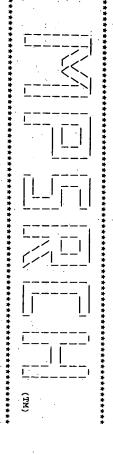
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

11000000000000000000000000000000000000	Result No.
1023 947 897 709 709 400 378 377 377 377 377 375 375 375 375 375 375	Score
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Sequence 11, Application Sequence 5, Application Sequence 9, Application Sequence 7, Application Sequence 7, Application Sequence 7, Application Sequence 2, Application Sequence 10, Application Patent No. 5219739. Patent No. 5	Description
1.69e-91 9.26e-84 1.12e-78 8.12e-29 8.12e-29 8.12e-29 9.16e-26 1.46e-26 1.46e-26 1.46e-26 2.28e-26 2.28e-26 3.58e-26 3.58e-26 3.58e-26 4.01e-24 4.01e-24 9.82e-24	Pred. No.

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	8, Appl	e 4, 7	e 12, Appl	13,	Sequence 1, Applicatio		ce 9,	. 521973	Un	Patent No. 5175255.	Patent No. 5194596.	Patent No. 5498600.	Patent No. 5175255.	Sequence 1, Applicatio	Patent No. 5428135.	Sequence 18, Applicati	,,	Sequence 2, Applicatio	Sequence 4, Applicatio	Patent No. 5498600.	rence 5,	Sequence 3, Applicatio	
	.24e-	.24e-	.83e	. 82e	.49e	9e	.49e	.49e	.49e	. 49	.49e	.49e	6.49e-07	6.49e-07	.49e	6.49e-07	. 49	.49e-	.49	6.49e-07	4.28e-07	4.28e-07	
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APPLICATION NUMBER: US/08/469,427A FILING DATE: 06-JUN-1995 CLASSIFICATION: 435 PRIOR APPLICATION DATA: APPLICATION NUMBER: US 08/397,651 FILING DATE: 01-MAR-1995 ATTORNEY/AGENT INFORMATION: NAME: Evans, Joseph D REGISTRATION NUMBER: 26,269 REFERENCE/DOCKET NUMBER: 41979cp2 TELECOMMUNICATION INFORMATION: TELEPHONE: (202) 628-8800 TELEPHONE: (202) 628-8800 TELEPAX: (202) 628-8844 INFORMATION FOR SEQ ID NO: 11: SEQUENCE CHARACTERISTICS: LENGTH: 188 amino acids	NUMBER OF ENVENTION: DAA CODING THEREFOR NUMBER OF SEQUENCES: 17 CORRESPONDENCE ADDRESS: ADDRESSEE: Evenson, McKeown, Edwards & Lenahan STREET: 1200 G Street, N.W., Suite 700 CITY: Washington STATE: DC STATE: DC COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA:	ication US/08469427A lication US/08469427A l	US-08-469-427A-11 STANDARD: DRT: 188 AA



MPsrch_pp protein - protein database search, using Smith-Waterman algorithm

Tabular Run on: output not generated Fri Sep 18 13:47:38 1998; MasPar time 5.75 Seconds 402.740 Million cell upd updates/sec

Scoring table:

Description: Perfect Scor

Score:

(1-143) from US08765588.pep 1078

>US-08-765-588-8

Sequence: PAM 150 Gap 11 MSPLLRRLLLAALLQLAPAQ......CRPKKKDSAVKPDRCRKLRR 143

Searched: 131922 seqs, 16180660 residues

Post-processing: Minimum Match 0% Listing first 45 summaries

Database: geneseq32

i:part1 2:part2 3:part3 4:part4 5:part5 6:part6 7
8:part8 9:part9 10:part10 11:part11 12:part12 13:1
14:part14 15:part15 16:part16 17:part17 18:part18 19:part19 20:part20 21:part21 22:part22 23:part23 24:part24 25:part25 26:part26 27:part27 28:part28 13:part13 7:part7

Statistics: Mean 30.138; Variance 121.083; scale 0.249

Pred. re greater than or equal is derived by analysis is the number of results predicted by chance to have a ater than or equal to the score of the result being printed, rived by analysis of the total score distribution.

SUMMARIES

splice variants (W00726-28) of the human vascular endothelial growth factor-like polypeptide SOM175 (see also W00725) are products of cDNA clones (see also T33611-13) respectively lacking exon 6, exons 6+7, and exon 4 of the SOM175 gene (see also T33610). They show at least 1 of the properties of SOM175 including the ability to induce proliferation of vascular endothelial cells, to interact with efficient of the some seed of the some cell survival and/or an increase in intracellular levels of alkaline phosphatase. Recombinant SOM175 proteins can be used to induce astroglial proliferation and to promote neural survival and/or proliferation.

English

Query Match Best Local S Matches 14

h 100.0%; Similarity 100.0%; 143; Conservative

Score 1078; DB 19; Pred. No. 1.31e-99; 0; Mismatches 0;

Length 143; Indels

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ALIGNMENTS

Claim 13; Page 46; 113pp; New growth useful for WPI; 96-412774/41. Grimmond S, Vascular endothelial growth Vascular endothelial growth astroglial proliferation. survival N-PSDB; T33612 Weber G; 20-NOV-1995; AU-006647 22-DEC-1995; AU-007274 WO9627007-A1. peptide W00727 standard; Protein; 143 AA. W00727; iomo sapiens. 30-NOV-1996 AMRA-) AMRAD factor related to vascular endothelial growth factor inducing astroglial proliferation and promoting neuronal Hayward NK, (first entry) OPERATIONS PTY LTD. Hayward NK, Larsson C, Location/Qualifiers /label= Sig_peptide factor-like protein SOM175-effector; VEGF; SOM175-effector; Nordenskjold

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... MPsrch_pp protein - protein database search, using Smith-Waterman algorithm Fri Sep 18 13:42:57 1998; MasPar time 10.92 Seconds 724.739 Million cell updates/sec

Tabular output not generated.

Title: >US-08-765-588-6 (1-188) from US08765588.pep 1458

Sequence: Description: Perfect Score: 1 MSPLLRRLLLAALLQLAPAQ.......CQGRGLELNPDTCRCRKLRR 188

Scoring table: PAM 150 Gap 11

Searched: 140555 segs, 42109429 residues

Post-processing: Minimum Match 0% Listing first 45 summaries

Database:

1:sp_fungi 2:sp_human 3:sp_invertebrate 4:sp_mammal 5:sp_mhc 6:sp_organelle 7:sp_phage 8:sp_plant 9:sp_bacteria 10:sp_rodent 11:sp_virus 12:sp_vertebrate 13:sp_unclassified

Statistics: Mean 41.227; Variance 70.997; scale 0.581

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

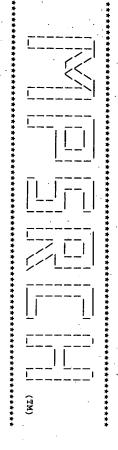
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1 MSPLLRRLLLAALLQLAPAQAPVSQPDAPGHQRKVVSWIDVYTRATCQPREVVVPLTVEL 60

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Q13045	P93541	004872	Q43260	094446	Q28659	P89466	000304	Q22919	P96447	Q60232	Q48926	015047	004937	Q40726	Q51763	Q23780	094441	000830	Q84667	Q38946	Q26258	Q23782	Q99072	P74446
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Query Match 69.5%; Score 1014; DB 2; Length 207; Best Local Similarity 100.0%; Pred. No. 4.54e-210; Matches 136; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	SIGNAL 1 21 POTENTIAL. SIGNAL 2 207 VEGF RELATED FACTOR ISOFORM VRF186. SEQUENCE 207 AA; 21602 MW; 16BDF6F1 CRC32;	# 5 2 F	SEQUENCE FROM N.A. TISSUE-FIBROSARCOMA HT-1080; MEDLINE; 96325041. OLOFSSON B., PAJUSOLA K., VON EULER G., CHILOV D., ALITALO K., ERIKSSON U.:		SEQUENCE FROM N.A. SEQUENCE FROM N.A. TISSUE-BRAIN; GRIMMOND S., LAGERCRANTZ J., DRINKWATER C., SILINS G., TOWNSON S., POLLOCK P., GOTLEY D., CARSON E., RAKAR S., NORDENSKJOLD M., WARD L., HAYWARD N., WEBER G.; GENOME RES. 6:122-129(1996). [2] SEQUENCE FROM N.A.	VRF OR VEGF-B. HOMO SADIENS (HUMAN). EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA; EUTHERIA; PRIMATES. [1]	PRELIMINARY; PRT; 207 AA. Q16528; PRELIMINARY; PRT; 207 AA. Q16528; Q1FEMBLREL. 01, CREATED) Q1-NOV-1996 (TREMBLREL. 01, LAST SEQUENCE UPDATE) Q1-VAN-1998 (TREMBLREL. 05, LAST ANNOTATION UPDATE) VEGF RELATED FACTOR ISOFORM VRF186 PRECURSOR.	RESULT.



MPsrch_pp protein - protein database search, using Smith-Waterman algorithm

Run on: Fri Sep 18 13:41:41 1998; MasPar time 6.16 Seconds 765.523 Million cell updates/sec Tabular output not generated.

Title: >US-08-765-588-6
Description: (1-188) from US08765588.pep
Perfect Score: 1458
Sequence: 1 MSPILERILLAALLQLAPAQ......COGRGLELNPDTCRCRKLRR 188
Scoring table: PAM 150
Gap 11

Searched: 69111 seqs, 25083644 residues

Post-processing: Minimum Match 0% Listing first 45 summaries

Database: swiss-prot35
1:swiss1

Statistics: Mean 43.185; Variance 67.718; scale 0.638

Pred No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1458 1317 513 513 513 498 498 369 369 369 371 177 177 177 177 177 177 177 177 177	Score
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1 MSPLLRRLLLAALLQLAPAQAPVSQPDAPGHQRKVVSWIDVYTRATCQPREVVVPLTVEL 60

Matches

188; Conservative

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Indels

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8	HOMO SAPIENS (HUMAN).	
8	EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;	
8	HERIA; PRIMATES.	
7 2		
₹ ₹	MEDLINE: 96197355.	
\$	OLOFSSON B., PAJUSOLA K., KAIPAINEN A., VON EULER G., JOUKOV V.,	
R	TERSSON R.F., ALITALO K., ERIKSSON	
25	581(1996).	
₽ :	SEQUENCE FROM N.A.	
32	GRIMMOND S., LAGERCRANTZ J., DRINKWATER C., SILINS G., TOWNSON S.,	
2 52	S., NORDENSKJOLD M.,	
2 5	GENOME RES. 6:122-129(1996).	
ឧ	-1- FUNCTION: GROWTH FACTOR FOR ENDOTHELIAL CELLS. BINDS HEPARIN.	
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i R		
88		
3 8	EXTRACELLULAR MATRIX UNLESS RELEASED BY HEPARIN.	
3 6	-i- TISSUE SPECIFICITY: EXPRESSED IN ALL TISSUES EXCEPT LIVER.	
3 6	D IN HEART, SKELETAL MUSCLE	
¥ ₹	EMBL: U48801: G1234823: -	
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Ř	SEQUENCE 100 AA; 21201 MW; 35EA69U4 CRC32;	
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MPsrch_pp protein - protein database search, using Smith-Waterman algorithm

Run on: Fri Sep 18 13:40:03 1998; MasPar time 9.36 Seconds 734.106 Million cell updates/sec

Tabular output not generated.

Description:
Perfect Score:
Sequence: Title: >US-08-765-588-6 (1-188) from US08765588.pep 1458

1 MSPLLRRLLLAALLQLAPAQ......CQGRGLELNPDTCRCRKLRR 188

Scoring table: PAM 150 Gap 11

Searched: 120441 segs, 36531193 residues

Post-processing: Minimum Match 0%
Listing first 45 summaries

Database:

pir56 1:pir1 2:pir2 3:pir3 4:pir4 5:nrl3d

Statistics: Mean 41.161; Variance 80.141; scale 0.514

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

110 110 110 110 110 110 110 110 110 110	Result
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MPsrch_pp protein - protein database search, using Smith-Waterman algorithm

Title: Tabular output not generated. >US-08-765-588-6 Fri Sep 18 13:45:20 1998; MasPar time 10.60 Seconds 561.427 Million cell updates/sec

Scoring table: Sequence: Description: Perfect Score: PAM 150 Gap 11 1458 (1-188) from US08765588.pep 1 MSPLLRRLLLAALLQLAPAQ.......CQGRGLELNPDTCRCRKLRR 188

Searched: 288199 seqs, 31643258 residues

Post-processing: Minimum Match 0% Listing first 45 summaries

Database:

1:P9 2:U60 3:U7 4:U80 5:U81 6:U82 7:U83 8:U84 9:U85 10:U86 11:U87 12:U88 13:U89 14:U90 15:U91 16:NEWP 17:NEWU6 18:NEWU7 19:NEWU8 20:NEWU9

Statistics: Mean 30.883; Variance 128.491; scale 0.240

and is derived Pred. No. 1s the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, derived by analysis of the total score distribution.

SUMMARIES

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ALIGNMENTS

XXXXXX US-08-795-430-57 STANDARD; PRT; 188 ₿

Sequence 57, Application US/08795430

Sequence 57, Application US/08795430 GENERAL INFORMATION APPLICANT: Alitalo, Kari
APPLICANT: Joukov, Vladimir
TITLE OF INVENTION: Vascular Endothelial Growth Factor C (VEGF-C)
TITLE OF INVENTION: Protein and Gene, Mutants Thereof, and Uses Thereof
NUMBER OF SEQUENCES: 57 CORRESPONDENCE ADDRESS:

STREET: DDRESSEE: 6300 Sears Tower, Marshall, O'Toole, Gerstein, Murray & Borun 00 Sears Tower, 233 South Wacker Drive

COUNTRY: CITY: Chicago STATE: Illinois

RY: United States of America 60606-6402

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/795,430

FILING DATE:

CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/FI96/00427
FILING DATE: 01-AUG-1996
PRIOR APPLICATION DATA:
APPLICATION DATA:
APPLICATION UMBER: 08/671,573
FILING DATE: 28-JUN-1996
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/6 FILING DATE: 14-FEB-1996 PRIOR APPLICATION DATA: 08/601,132

APPLICATION NUMBER: 08/585,895 FILING DATE: 12-JAN-1996 RIOR APPLICATION DATA:

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MPsrch_pp protein - protein database search, using Smith-Waterman algorithm

Tabular output not generated. Run on: Fr1 Sep 18 13:37:39 1998; MasPar time 6.87 Seconds 442.549 Million cell updates/sec

Description: Perfect Score: Sequence: Scoring table: Title: PAM 150 Gap 11 >US-08-765-588-6 (1-188) from US08765588.pep 1458 1 MSPLLRRLLLAALLQLAPAQ......CQGRGLELNPDTCRCRKLRR 188

Searched: 131922 seqs, 16180660 residues

Post-processing: Minimum Match 0% Listing first 45 summaries

Database:

a-geneseq32
1:part1 2:part2 3:part3 4:part4 5:part5 6:part6 7:part7
8:part8 9:part9 10:part10 11:part11 12:part12 13:part13
14:part14 15:part15 16:part16 17:part17 18:part18
19:part19 20:part20 21:part21 22:part22 23:part23
24:part24 25:part25 26:part26 27:part27 28:part28
29:part29

Statistics: Mean 31.228; Variance 126.442; scale 0.247

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Res	Result	Score	554		₽ ₽	ID	g jule	Pred. No.
	24	1458 1458	100.0	188 188	19 21	W00726 W04829	Vascular endothelial Fibrosarcoma vascular	2.81e-138 2.81e-138
	w	1317	90.3	188	21	W04826	Heart vascular endoth	1.89e-123
	4	1307		188	19	W00864		2.12e-122
	υı	1240	85.0	195	21	W04827	Heart vascular endoth	2.29e-115
	σ	1023	70.2	143	19	W00727	~	1.20e-92
	7	1014	69.5	207	21	W04831	Vascular endothelial	1.04e-91
		1014		207	19	W00725	Vascular endothelial	1.04e-91
	9	946	64.9	221	23	W07611	Human vascular endoth	1.29e-84
	10	938	64.3	207	21	W04830	Vascular endothelial	8.77e-84
	11	928	63.6	207	19	W00863	Murine VRF186.	9.65e-83
	12	897	61.5	133	21	W04828	Vascular endothelial	1.63e-79
	13	749	51.4	101	19	₩00728	Vascular endothelial	3.65e-64
	14	709	48.6	102	21	W04824	Vascular endothelial	4.94e-60
	15	530	36.4	595	18	W00595	SAP-GlySer-VEGF165(Gl	1.13e-41
	16	528	36.2	421	18	W00584	SAP-AlaMet-VEGF165.	1.80e-41
	17	528	36.2	588	18	W00592	SAP-AlaMet-VEGF165-Gl	1.80e-41
	18	528	36.2	594	18	W00591	SAP-Alamet-VEGF165(Gl	1.80e-41
			•			,		

Query Match Best Local S Matches 181

h 100.0%; Similarity 100.0%; 188; Conservative

Score 1458; DB 19; Length 188; Pred. No. 2.81e-138; 0; Mismatches 0; Indels 0;

0;

Gaps

0;

20 521 35.7 192 18 R94040 VEGF165 Cys+2. 21 521 35.7 428 18 R94072 SAP(Gly4Ser)/VEGF165. 22 521 35.7 598 18 R94074 SAP(Gly4Ser)/VEGF165. 23 521 35.7 598 18 R94074 SAP(Gly4Ser)/VEGF165(G SAP(Gly4Ser))/EGF165(G SAP(Gly4Ser))/EGF165																										
35.7 192 18 R94040 VEGF165 Cys+2. 35.7 428 18 R94072 SAP(Gly4Ser) VEGF 35.7 443 18 W00595 SAP(Gly4Ser) VVEGF 35.7 598 18 R94074 SAP(Gly4Ser) VVEGF 35.7 612 18 W00596 SAP(Gly4Ser) VVEGF 35.5 191 27 W38242 VASCULAR endothe. 35.5 191 19 W00724 VASCULAR endothe. 35.5 191 18 R94002 Human vascular endothe. 35.5 191 18 R94002 Human vascular endothe. 35.5 191 16 R91076 Human vascular endothe. 35.5 191 17 W38235 VEGF/CPG2 fusion 35.5 191 18 R94002 VEGF/CPG2 fusion 35.5 191 18 R94003 VEGF/CPG2 fusion 35.5 191 18 R94039 VEGF/CPG2 fusion 35.2 190 5 R27351 Sequence of vascular Endothe. 35.2 190 4 R22347 Rat Vascular Endothe. 35.2 190 5 R27352 Sequence of vascular Sequence of vascular endothe. 36.6 165 25 W31091 Vascular endothe. 36.6 165 25 W31091 Vascular endothe. 36.6 165 25 W31091 Vascular endothe. 36.5 190 2 R08001 Bovine vascular endothe. 36.6 165 25 W31091 Bovine vascular endothe. 36.6 165 27 R08001 Bovine vascular endothe.	45	44	43	42	41	40	39	а 8	37	36	35	34	ω	32	31	30	29	28	27	26	25	24	23	22	21	20
7 192 18 R94040 VEGF165 Cys+2. 7 428 18 W905785 SAP(G1y4Ser) VEGF17 VEGF18 18 R94074 SAP(G1y4Ser) VEGF17 VEGF18 18 R94074 SAP(G1y4Ser) VEGF18 18 R94074 SAP(G1y4Ser) VEGF18 18 R94072 VASCULAR endothelement of the second of the	503	505	504	504	506	507	512	513	513	513	513	513	517	517	518	518	518	518	518	518	517	521	521	521	521	521
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R94040 VEGF165 Cys+2. R94072 SAP(Gly4Ser)VEGF W00585 SAP(Gly4Ser)VEGF W00596 SAP(Gly4Ser)VEGF R94074 SAP(Gly4Ser)VEGF R94072 SAP(Gly4Ser)VEGF R94072 VAScular endothe R94002 VAScular endothe R94002 VEGF165. R98002 Human Vascular en R91076 Human vascular en W00583 VEGF/CFG2 fusion W38237 VEGF/CFG2 fusion W38237 VEGF/CFG2 fusion R27350 Sequence of vascu R27351 Sequence of vascu R27351 Sequence of vascu R27352 Sequence of vascu R27353 Sequence of vascu R27354 Sequence of vascu R27355 Sequence of vascu R27356 Sequence of vascu R27357 Sequence of vascu R27358 Sequence of vascu R27359 VEGF/CFG2 fusion R27350 Sequence of vascu R27351 Sequence of vascu R27352 Sequence of vascu R27354 Vascular endothel W31086 Vascular endothel W31086 Vascular endothel W31087 Vascular endothel R08001 Human vascular en															۱	ш						_	ш	щ	Н	ш
Cys+2. Ser)VEGF:									R0812						_							-		-		-
	Human vascular endoth	Bovine vascular endot				endothel	VEGF165 Cys+4.		Mammalian glioma-deri	Vascular	Sequence of vascular	of vascu	fusion	fusion	VEGF165-AlaMet-SAP.			VEGF165.			Human VEGF-165.	SAP(Gly4Ser)2VEGF165(SAP(Gly4Ser)VEGF165(G	SAP(Gly4Ser)4VEGF165.	165	VEGF165 Cys+2.

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Recombinant SOM175 proteins can be used to induce astrogilal proliferation and to promote neural survival and/or proliferation. Sequence 188 AA;	and/or an increase in intracellular levels of alkaline phosphatase.	proliferation of vascular endothelial cells, to interact with	least 1 of the properties of SOM175 including the ability to induce	6+7, and exon 4 of the SOM175 gene (see also T33610) They show at	factor-like polypeptide SOM175 (see also W00725) are products of	Splice variants (W00726-28) of the human vascular endothelial growt	Claim 12: Page 42-43: 113mm: English	userur for inducing astroglial prollieration and promoting neuronal		N-PSDB; T33611.	WPI: 96-412774/41.		Hayward NK,	$\boldsymbol{\vdash}$	••		_	22-FEB-1996; AU0094.	06-SEP-1996.			peptide 121	Key Location/Qualifiers	Homo sapiens.			Vascular endothelial growth factor-like protein SOM175-e6.	30-NOV-1996 (first entry)		W00726 standard: Protein: 188 AA	

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MPsrch_pp protein - protein database search, using Smith-Waterman algorithm

Tabular output not generated. Fr1 Sep 18 13:44:55 1998; MasPar time 2.47 Seconds 537.274 Million cell updates/sec

Maitle: Sequence: Description: Perfect Score: Scoring table: PAM 150 Gap 11 1 MSPLLRRLLLAALLQLAPAQ......CQGRGLELNPDTCRCRKLRR 188 >US-08-765-588-6 (1-188) from US08765588.pep 1458

Searched: 77021 seqs, 7058996 residues

Post-processing: Minimum Match 0% Listing first 45 summaries

Database: a-issued 1:5_COMB 2:PCT9_COMB 3:backfiles1

Statistics: Mean 29.152; Variance 121.909; scale 0.239

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

NUMBER OF SEQUENCES:

23	22	21	20	19	18	17	16	15	14	13	12	11	10		æ	7	0	G	4	ω	ນ	Ļ	Result
296	361	361	371	372	372	377	383	383	400	486	492	492	492	505	518	517	517	709	897	1240	1317	1458	Score
20.3	24.8	24.8	25.4	25.5	25.5	25.9	26.3	26.3	27.4	33.3	33.7	33.7	33.7	34.6	35.5	35.5	35.5	48.6	61.5	85.0	. 90.3	100.0	Query Match
149	120	120	215	215	214	231	121	121	55	189	164	164	164	190	191	165	165	102	133	195	188	188	Query Match Length
ب	ω	ω	w	ω	ω	N	ω	ω	-	μ	w	ω	ω	ω	w	ω	ω	~	سر	ш	ب	۲	8
US-08-469-	5194596-9	5219739-9	5240848-7	5219739-22	5240848-11	PCT-US96-0	5219739-20	5194596-19	US-08-469-	US-08-469-	5194596-17	5219739-17	5219739-18	5332671-3	5332671-4	5219739-19	5194596-18	US-08-469-	US-08-469-	US-08-469-	us-08-469-	US-08-469-	ID
Sequence 14, Applicati	Patent No. 5194596.	Patent No. 5219739.	Patent No. 5240848.	Patent No. 5219739.	٢	Sequence 10, Applicati	Patent No. 5219739.	Patent No. 5194596.	Sequence 3, Applicatio	Sequence 15, Applicati	Patent No. 5194596.	Patent No. 5219739.	Patent No. 5219739.	Patent No. 5332671.	Patent No. 5332671.	Patent No. 5219739.	Patent No. 5194596.	Sequence 2, Applicatio	Sequence 9, Applicatio	Sequence 7, Applicatio	Sequence 5, Applicatio	Sequence 11, Applicati	Description
2.48e-18	1.42e-24	1.42e-24	1.53e-25	1.22e-25	1.22e-25	3.99e-26	1.04e-26	1.04e-26	2.32e-28	8.58e-37	2.20e-37	2.20e-37	2.20e-37	1.15e-38	5.94e-40	7.46e-40	7.46e-40	5.58e-59	6.75e-78	1.11e-112	1.60e-120	6.66e-135	Pred. No.

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SULT		45	44	43	42	4	40	39	38	37	36	35	3 4	33	32	31	30	29	28	27	26	25	24	
1		169	169	170	170	170	170	170	170	170	172	172	177	177	177	177	177	177	177	177	177	177	178	
160-1073-11		11.6	11.6	11.7	11.7	11.7	11.7	11.7	11.7	11.7	•	11.8	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.2	
מ		125	125	282	120	109	109	109	109	109	109	109	241	241	241	241	241	241	241	226	220	160	419	
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	ALIGNMENTS	us-08-095-	US-07-883-	US-08-445-	5428135-2	PCT-US91-0	US-08-094-	PCT-US93-0	US-08-094-	5498600-3	US-08-094-	σs-08-094-	PCT-US96-0	US-08-469-	5219739-15	US-08-387-	5194596-15	5175255-8	5175255-2	5498600-2	5175255-4	US-08-094-	PCT-US96-0	
DDT . 100 A		4,	7,	•	Patent No. 5428135.	18	Sequence 4, Applicatio	۳,	Sequence 2, Applicatio		5	ω	9	Sequence 13, Applicati	0. 52	Sequence 4, Applicatio	Patent No. 5194596.	٠	Patent No. 5175255.	Patent No. 5498600.	ĭ	Sequence 1, Applicatio	'n	
		1.45e-06	. 456	1.18e-06	. 186	1.18e-06	1.18e-06	1.18e-06	1.18e-06	1.18e-06	7.81e-07			.79€	2.79e-07	٠,	2.79e-07	٠.	.79e	2.79e-07	2.79e-07	2.79e-07	2.27e-07	

Sequence 11, Application US/08469427A US-08-469-427A-11 Sequence 11, Application US/08469427A Patent No. 5607918 GENERAL INFORMATION: APPLICANT: Pajusola, Katri
TITLE OF INVENTION: VASCULAR ENDOTHELIAL GROWTH FACTOR-B AND
TITLE OF INVENTION: DNA CODING THEREFOR
NUMBER OF SEQUENCES: 17 Eriksson, Ulf Olofsson, Birgitta Alitalo, Kari STANDARD; PRT; 284

CLASSIFICATION: 435
PRIOR APPLICATION NUMBER: US 08/397,651
APPLICATION NUMBER: US 08/397,651
FILING DATE: 01-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Evans, Joseph D
REGISTRATION NUMBER: 26,269
REFERENCE/DOCKET NUMBER: 41979cp2
TELECOMMUNICATION INFORMATION: TELEFAX: (202) 628-884 INFORMATION FOR SEQ ID NO: STATE: DC
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/01
FILING DATE: 06-JUN-1995 CORRESPONDENCE ADDRESS SEQUENCE CHARACT COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS STREET: TELEPHONE: SOFTWARE: PatentIn Release #1.0, Version #1.25 ADDRESSEE: Washington E: Evenson, McKeown, Edwards & Lenahan 1200 G Street, N.W., Suite 700 (202) 628-8800 628-8844 US/08/469,427A

353 24.3 120 3 519496-9 Patent NO. 5219739. 4.90e-1 353 24.3 120 3 5219739-9 Patent NO. 5219739. 4.90e-1 345 23.8 164 3 5219739-17 Patent NO. 5219739. 2.12e-1 345 23.8 164 3 5219739-17 Patent NO. 5219739. 2.12e-1 345 23.8 164 3 5219739-17 Patent NO. 5194596. 2.12e-1 345 23.8 164 3 5194596-17 Patent NO. 5194596. 2.12e-1 345 23.8 164 3 5194596-17 Patent NO. 5194596. 2.12e-1 346 23.7 189 1 US-08-469- Sequence 14, Applicati 2.54e-1 36 21.1 149 1 US-08-469- Sequence 14, Applicati 2.55e-1 370 12.4 160 1 US-08-094- Sequence 1, Applicati 2.59e-0	379 26.1 231 2 PCT-US96-0 Sequence 11 378 26.0 121 3 5219739-20 Patent No. 378 26.0 121 3 5219739-20 Patent No. 378 26.0 121 3 52194596-19 Patent No. 374 25.8 215 3 5219739-22 Patent No. 373 25.7 215 3 5240848-7 Patent No. 370 25.5 165 3 5219739-19 Patent No. 370 25.5 165 3 5194596-18 Patent No. 358 24.7 190 3 5332671-3 Patent No. 358 24.7 190 3 5332671-3 Patent No.	Score Match Length DB ID Description Pred. No. 1014 69.8 188 1 US-08-469- Sequence 11, Applicati 3.04e-7 938 64.6 188 1 US-08-469- Sequence 5, Applicatio 6.37e-6 897 61.8 133 1 US-08-469- Sequence 9, Applicatio 1.52e-6 897 61.8 133 1 US-08-469- Sequence 7, Applicatio 1.57e-6 709 48.8 102 1 US-08-469- Sequence 7, Applicatio 5.73e-4 709 48.8 102 1 US-08-86-1 Patent No. 27.01848 4 156-2 379 26.1 214 3 5240848-11 Patent No. 27.01848	Pred. No score greand is de and is de	Database: a-issued 1:5_COMB 2:PCT9_COMB 3:backfiles1 Statistics: Mean 29.438; Variance 149.891; scale 0.196	Searched: 77021 segs, 7058996 residues Post-processing: Minimum Match 0% Listing first 45 summaries	Title: >US-08-765-588-4 Description: (1-207) from US08765588.pep Perfect Score: 1452 Sequence: 1 MSPLLRRLLLAALLQLAPAQPGPAAAAADAAASSVAKGGA 207 Scoring table: PAM 150 Gap 11	Release 3.1A John F. Collins, Biocomputing Research Unit. Copyright (c) 1993-1998 University of Edinburgh, U.K. Distribution rights by Oxford Molecular Ltd MPsrch_pp protein - protein database search, using Smith-Waterman algorithm Run on: Fri Sep 18 13:34:31 1998; MasPar time 2.64 Seconds Tabular output not generated.	(TM)
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	•	ALIGNMENTS	ALI				
1.20e-053 1.20e-053 1.20e-053 1.20e-053 1.20e-053 1.20e-053 1.20e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-053 1.42e-	atent No. 5175255. atent No. 5175255. atent No. 5194596. atent No. 5219739. equence 4 Applicat equence 1, Applicat equence 2, Applicat equence 3, Applicat equence 4, Applicat equence 4, Applicat equence 7, Applicat equence 8, Applicat equence 9, Applicat equence 9, Applicat equence 10, S219759.	5255-2 5255-8 5255-8 5255-8 5255-8 5255-15 9739-15 98-465- 08-445- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-094- 08-08- 08-08- 08-08- 08-08- 08-08- 08-08- 08-08- 08-08-	5175 5175 5175 5175 5175 5175 5175 5175	22441 22441 2441 2441 2441 2441 2441 255 211 255 211 255 211 255 211 255 211 255 211 255 211 255 211 255 211 255 211 255 211 255 211 255 211 255 211 255 211 255 211 255 257 257 257 257 257 257 257 257 257		180 180 180 180 180 179 179 179 172 172 172 172 172 172 172 172 172 172	768886188888888888888888888888888888888
1.20e-05 1.20e-05	o. 5175 o. 5498	5255-4 8600-2 -ms96-0	14.7		12.4	180 180	4 10 6

(TM)

MPsrch_pp protein - protein database search, using Smith-Waterman algorithm

Tabular output not generated. Fri Sep 18 13:34:57 1998; MasPar time 11.31 Seconds 579.235 Million cell updates/sec

Description: Perfect Score:

Sequence: >US-08-765-588-4 (1-207) from US08765588.pep 1452

1 MSPLLRRLLLAALLQLAPAQ......PGPAAAAADAAASSVAKGGA 207

Scoring table: PAM 150 Gap 11

Searched: 288199 seqs, 31643258 residues

Post-processing: Minimum Match 0%
Listing first 45 summaries

Database:

1:P9 2:U60 3:U7 4:U80 5:U81 6:U82 7:U83 8:U84 9:U85 10:U86 11:U87 12:U88 13:U89 14:U90 15:U91 16:NEWP 17:NEWU6 18:NEWU7 19:NEWU8 20:NEWU9

Statistics: Mean 31.271; Variance 155.127; scale 0.202

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

220	18 19	. 17	16	15	. 14	. 13	12	11	10	9	8	7	σ	v	4	w	N	P	Result
1106	1114	1114	1123	1160	1203	1243	1287	1317	1317	1317	1317	1317	1434	1452	1452	1452	1452	1452	Score
76.2	76.7	76.7	77.3	79.9	:-	85.6	•	90.7	90.7	90.7.	90.7	90.7	98.8	100.0	100.0	100.0	100.0	100.0	Query Match L
	221						185	207		207	207	207				207	207	!	Length [
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Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Description
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6.14e-82 5.67e-80	1.27e-82 1.27e-82	1.27e-82	2.16e-83	1.48e-86	3.08e-90	1.15e-93	1.95e-97	5.20e-100	5.20e-100	5.20e-100	5.20e-100	5.20e-100	4.66e-110	1.32e-111	1.32e-111	1.32e-111	1:32e-111	1.32e-111	Pred. No.

	45	44	43	42	41	40	39	38	37	36	ω 5	ω 4	33	32	31	30	29	28	27	26	25	24	23	22
	897	897	897	897	919	938	938	938	938	938	938	938	941	956	999	1014	1014	1014	1014	1014	1014	1014	1014	1039
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•	133	133	133	133	179	188	188	188	188	188	188	188	188	184	189	188	188	188	188	188	188	188	188	194
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	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence
			Sequence 9,	Sequence 9,	Sequence 21,	Ø	Sequence 5,	Sequence 5,	Sequence 5,	Sequence 5,	Sequence 5,	Sequence 5,	Sequence 1,	Sequence 20,			Sequence 11,	Sequence 56,			Sequence 11,	Sequence 11,	Sequence 11,	Sequence 18,
•	9,	9	9,	9, 2	e 21,	e 5,	e 5,	е 5	@ 5,	e 5,	σ,	<u>ب</u>	1,	20,	19,	11,	11,	56,	11,	57,	11,	e 11,	11,	
•	9, Applicatio 4.03e	9,	9, Applicatio 4.03e	9, Applicatio 4.03e	e 21, Applicati 5.43e [.]	e 5, Applicatio 1.31e	e 5, Applicatio 1.31e	e 5, Applicatio 1.31e-	e 5, Applicatio 1.3	e 5, Applicatio 1.31e-	5, Applicatio 1.	5, Applicatio 1.31e-	 Applicatio 7.30e- 	20, Applicati 3.86e-6	19, Applicati 8.36e-	11, Applicati 4.40e-7	11, Applicati 4.40e-7	56, Applicati 4.	11, Applicati 4.40e-	57, Applicati 4.40e-	11, Applicati 4.40e-	e 11, Applicati 4.	11, Applicati 4.40e-	18, Applica

ALIGNMENTS

 \mathbf{z}^{S} XXXXX US-08-609-443A-15 STANDARD; PRT; 207 AA.

Sequence 15, Application US/08609443A

Sequence 15, Application US/08609443A GENERAL INFORMATION: APPLICANT: ERIKSSON, Ulf
APPLICANT: OLOFSSON, Birgitta
APPLICANT: ALITALO, Kari
APPLICANT: PAJUSOLA, KARTI
TITLE OF INVENTION: VASCULAR ENDOTHELIAL GROWTH FACTOR-B AND
TITLE OF INVENTION: DNA CODING THEREFOR
NUMBER OF SEQUENCES: 31

CORRESPONDENCE ADDRESS: ADDRESSEE: Evenson, McKeown, Edwards & Lenahan STREET: 1200 G Street, N.W., Suite 700 STREET: Washington

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible COUNTRY: 20005 R SD

OPERATING SYSTEM: PC-DOS/MS-DOS
SOUTMARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/609,443A FILING DATE: 01-MAR-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/397,651
FILING DATE: 01-MAR-1995
PRIOR APPLICATION DATA: APPLICATION NUMBER: US 08/469,427 FILING DATE: 06-JUN-1995 PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/569,063 FILING DATE: 06-DEC-1995 ATTORNEY/AGENT INFORMATION: NUMBER: 26,269

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MPsrch_pp protein · protein database search, using Smith-Waterman algorithm

Tabular output not generated. Run on: Fri Sep 18 13:32:46 1998; MasPar time 11.91 Seconds 732.057 Million cell updates/sec

Perfect Score: Sequence: Title: >US-08-765-588-4 (1-207) from US08765588.pep 1452

1 MSPLLRRLLLAALLQLAPAQ......PGPAAAAADAAASSVAKGGA 207

Scoring table:

PAM 150 Gap 11

Post-processing: Minimum Match 0% Listing first 45 summaries Searched: 140555 segs, 42109429 residues

Database:

1:sp_fung1 2:sp_human 3:sp_invertebrate 4:sp_mammal 5:sp_mhc 6:sp_organelle 7:sp_phage 8:sp_plant 9:sp_bacteria 10:sp_rodent 11:sp_virus 12:sp_vertebrate 13:sp_unclassified

Statistics: Mean 42.614; Variance 109.241; scale 0.390

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

2	15	1.	۲.	16	15	1,	::	1	11	10		~	_,	•	(P	_	(,)	٨,		Result
) : 139	9 141	3 . 143	7 153	•				-		_		3 279	7 333	361	372	373	780	1319	1452	Score
9.6	9.7	9.8	10.5	11.2	12.1	12.3	12.4	13.2	13.5	13.6	19.1	19.2	22.9	24.9	25.6	25.7	53.7	90.8	100.0	Query Match Length
442	901	581	473	183	415	185	271	326	21:0	358	75		216			232	116	207	207	
œ	9	ω	œ	10	10	N	11	10	4	10	4	10	12	12	12	N	10	10	N	B
Q39494	Q44562	Q20517	Q39620	Q63740	P97953	Q15354	041283	035251	Q29613	P97946	018843	Q63434	Q91420	042572	042571	Q16889	035485	Q64290	Q16528	Ħ
75K MRNA.	SIALIDASE.	F47B8.5.	(VSP-3) PRECURSOR.	PDGF PROTEIN (FRAGMENT	VASCULAR ENDOTHELIAL G	C-SIS PROTO-ONCOGENE (POLYPROTEIN PRECURSOR	VASCULAR ENDOTHELIAL G	C-SIS ONCOGENE (PLATEL	VASCULAR ENDOTHELIAL G	VASCULAR ENDOTHELIAL G	PLACENTA GROWTH FACTOR	VASCULAR ENDOTHELIAL G	VEGF RELATED FACTOR IS	Description					
9.38e-05	5.35e-05	3.04e-05	1.73e-06	1.24e-07	1.87e-09	7.52e-10	5.55e-10	1.39e-11	4.00e-12	2.14e-12	1.12e-23	8.04e-24	8.83e-32	5.56e-36	1.21e-37	8.56e-38	9.13e-102	1.59e-189	2.09e-211	Pred. No.

4.4	43	42	41	40	39	38	37	36	35	34	ω	32	31	30	29	28	27	26	25	24	23	22	21
124	125	125	127	127	127	127	127	128	128	128	128	129	129	129	129	129	131	130	130	130	132	134	137
	9.6			8.7	8.7	8.7	8.7	8.8	8.8	8.8	8. 8	8.9	8.9	8.9	8.9	8.9	9.0	9.0	9.0	9.0	<u>.</u>	9.2	9.4
1000	616	228	801	464	309	153	145	1711	439	196	151	507	381	376	375	351	1356	611	416	371	438	552	2378
9	: =	œ	ω	æ	11	w	œ	9	œ	œ	œ	12	ω	æ	ω	œ	10	9	w	9	œ	œ	w
Q98457 Q24820	Q96716	Q43558	Q23635	Q41645	Q894'02	000879	Q40786	P96311	Q42421	Q08195	041192	013028	Q94399	Q39353 ·	P93066	Q39492	Q63729	P74375	017374	006555	Q39495	Q96343 ·	P91365
GENOME, PARTIAL SEQUEN BETA-GLUCANASE.	DING PROT	PROLINE RICH PROTEIN P	SIMILAR TO LONG TANDEM	EXTENSIN (FRAGMENT).		MEROZOITE SURFACE PROT	Ã.	ENDOGLUCANASE A (EC 3	CHITINASE PRECURSOR.	CYSTEINE-RICH EXTENSIN	NAPRP3.	ANTIFREEZE GLYCOPEPTID	2K265.2.	CELL WALL-PLASMA MEMBR	OLEOSIN-LIKE PROTEIN.	WP6 PRECURSOR.	TATE	HYPOTHETICAL 62.9 KD F	T13B5.4 PROTEIN.	HYPOTHETICAL 36.4 KD P	ALPHA 2 FRUSTULIN.	MYROSINASE-BINDING PRO	CODED FOR BY C. ELEGAN
5.74e-03 5.74e-03	4	4.39e	N		N	N	N	1.95e-03	1.95e-03		1.95e-03	Ļ		H	1.49e-03		8.626	_	•		6.55e-04	3.78e	N 1.64e-04

ALIGNMENTS

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	Query Match Best Local Matches 2	SEQUENCE	SIGNAL	SIGNAL.	PROSITE;	EMBL;	EMBI . IIA	ERIKSSON	MEDLINE;	TISSU	SEQUENCE	<u>3</u>	PROC.	OLOFS	MEDLINE;	TINGE	SECUENCE [2]	GENOM	HAYWA	POLLO	GRIMM	TISSU	SEQUE	Ξ	EUTHERIA;	OWOH	VRF	VEGF	01-JA	01 - NO	01 - NO.	016528	LT 1	
	tch al Sim 207;			•		U52819;	EMBI: MARRAS	SON U.;		E-FIBR			NATL.		NE; 96	THE PERSON		GENOME RES.	RD N.,	CK P.,	GRIMMOND S.,	TISSUE-BRAIN;	SEQUENCE FROM				VRF OR VEGF-B.	VEGF RELATED	01-JAN-1998	01-NOV-1996	01-NOV-1996		о р	
	similarity 707; Conse	207 AA;) 		N		٠.		B., PAJUSOLA	OSARCO	FROM N.A.		PROC. NATL. ACAD.	•	96197355.	TISSUE-FIRROSARCOMA	FROM N. A	6:122	HAYWARD N., WEBER G.;	GOTLE			OM N.A.		PRIMATES.	S (HUMAN).	Ë	D FACT	(TREM	(TREM	TREM	,	7	
	100.0%; arity 100.0%; Conservative	207 ; 21602			PDGF;	G1488259;	1916366	1 1001	SOLA K.,	TISSUE=FIBROSARCOMA HT-1080;	•		SCI.					6:122-129(1996)	G.;	POLLOCK P., GOTLEY D., CARSON E., RAKAR	LAGERCRANTZ		•	:				FACTOR ISOFORM	TREMBLREL.	TREMBLREL.	TREMBLEEL	E WEST TATEMENT,	מדעד זמ	
	** **	WW;			1.	٠.	_ T20T		., VON	1080;			U.S.A.		0	HT - 1080 ·		996).		CARSON	Z J.,				CHUMPAIN,	3			05, I		01	, 100		
	Score 1 Pred. N	S	POTENTIAL.				1331/(1330)	1	EULER											_ E: , F	DRINKWATER							VRF186 PRECURSOR.	LAST ANNOTATION UPDATE)	LAST SE	CREATED	1777		
	1452; DB 2; No. 2.09e-211; Mismatches 0;	16BDF6F1 CRC32;	IAL.						G . ,				93:2576-2581(1996)							WAKAR S					A EVI BBYWIN'			PRECUI	NOTAT	SEQUENCE UPDATE	3	***	707	
	DB 2;)9e-21;	RC32;							CHILOV D.,				81(199							S., NO								RSOR.	do Noi	E UPDA		5	ż	
	P.											•	<u>5</u>							RDENSI	SILINS				TELL KAPODA;				DATE)	TE)				
	ngth 207; Indels	ISOFORM VRF186							ALITALO											KJOLD	G., 10													
	0;	VRF186							o ×.,											M., W	TOWNSON				WATHWINE ;	1								
,	Gaps	ř																		NORDENSKJOLD M., WARD L.,	: :													
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MPsrch_pp protein - protein database search, using Smith-Waterman algorithm Run on: Fri Sep 18 13:31:58 1998; MasPar time 6.68 Seconds

on: Fri Sep 18 13:31:58 1998; masPar time 6.68 Seconds 777.434 Million cell updates/sec

Tabular output not generated.

Title: >US-08-765-588-4
Description: (1-207) from US08765588.pep
Perfect Score: 1452
Sequence: 1 MSPLLRRLLLAALLQLAPAQ.....

1 MSPLLRRLLLAALLQLAPAQ......PGPAAAAADAAASSVAKGGA 207

Scoring table: PAM 150
Gap 11

Searched: 69111 seqs, 25083644 residues

Post-processing: Minimum Match 0% Listing first 45 summaries

Database: swiss-prot35 1:swiss1

Statistics: Mean 44.541; Variance 104.798; scale 0.425

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

22 23	210	19	18	16	15	14	13	12	11	. 10	9	80	7	o.	5	4	ω	N	_	Result
172 167	174 172	175	179	180 179	180	189	264	284	294	306	347	358	361	364	371	371	373	938	1014	Score
11.8	12.0 11.8	12.1	12.3	12.4	12.4			19.6		21.1	23.9	24.7	24.9	25:1		25.6		64.6	69.8	Query Match Length
213 211	148 211	419	245	241	226	225	128	158	133	170	164	190	146	190	214	190	215	188	188	
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PDGA_MOUSE	VEGH_ORFN7	VEGC_HUMAN	PDGB FELCA	PDGB_HUMAN	TSIS_SMSAV	PDGB_RAT	VEGF COTJA	PLGF MOUSE	VEGH ORFN2	PLGF HUMAN	VEGF_CAVPO	VEGF_BOVIN	VEGF_SHEEP	VEGF_PIG	VEGF_MOUSE	VEGF_RAT	VEGF_HUMAN	VEGB_MOUSE	VEGB_HUMAN	Ħ
	1		PLATELET - DERIVED GROWT		PDGF-RELATED TRANSFORM	1	ENDOTH		ENDOTHELTAL	. '	~	~	•			<pre>ENDOTHELIAL</pre>	••	ENDOTHELIAL	VASCULAR ENDOTHELIAL G	Description
8.21e-10 4.09e-09	4.30e-10 8 31e-10	3.11e-10	8.466-11	6.10e-11	6.10e-11	3.15e-12	1 686-23	1 250-26	3 1000	4 086-30	,	1.68e-38	ω	1.76e-39	1.26e-40	1.26e-40		4.30e-138	1.62e-151	Pred. No.

밁

1 MSPLLRRLLLAALLQLAPAQAPVSQPDAPGHQRKVVSWIDVYTRATCQPREVVVPLTVEL 60

Best Local Similarity 100.0%; Matches 136; Conservative

Pred. No. 1.62e-151; 0; Mismatches 0;

Indels 0;

Gaps

0;

4.5	44	43	4.	4.	40	ω	38	ω	36	35	ω A	ω	ω	ω	3(20	22	N	26	25	24
															٠						
119	119	120	120	122	122	123	123	126	126	126	126	126	128	134	136	137	136	144	162	163	T 0 2
8.2	8.2		ω ω		8.4	5	8.5	8.7	8.7	8.7	8.7	8.7		9.2						11.2	11.4
600	380	1323	449	1461	344	1446	308	5179	534	485	409	316	3149	775	699	474	439	279	241	226	204
-ب	ш	ш	щ	щ	μ,	ר	_	,_	1	μ	μ	Н	۲	Н	μ	۱	μ	μ	ш	Ь	۲
SP96_DICDI	VASP_HUMAN	NME4_MOUSE	APG_BRANA	IE18_PRVIF	ME18_HUMAN	IE18_PRVKA	CC40_CAEEL	MUC2_HUMAN	APG_ARATH ·	SSGP_VOLCA	R23B_HUMAN	CDNC_HUMAN	TEGU_EBV	ICPO_HSV11	VGLG_HSV2H	VIP3_TTV1V	XP2_XENLA	Y091_NPVOP	PDGB_SHEEP	PDGA_XENLA	PDGA_RAT
SPORE COAT PROTEIN SP9	VASODILATOR-STIMULATED	GLUTAMATE (NMDA) RECEP	ANTER-SPECIFIC PROLINE	IMMEDIATE-EARLY PROTEI	DNA-BINDING PROTEIN ME	IMMEDIATE-EARLY PROTEI	CUTICLE COLLAGEN 40.	MUCIN 2 PRECURSOR (INT	ANTER-SPECIFIC PROLINE	SULFATED SURFACE GLYCO	UV EXCISION REPAIR PRO	CYCLIN-DEPENDENT KINAS	LARGE TEGUMENT PROTEIN	TRANS-ACTING TRANSCRIP	GLYCOPROTEIN G.	VIRAL PROTEIN TPX.	SKIN SECRETORY PROTEIN	HYPOTHETICAL 29.3 KD P	PLATELET-DERIVED GROWT	PLATELET-DERIVED GROWT	PLATELET-DERIVED GROWT
7.80e-03	7.80e-03	5.90e-03	5.90e-03	3.36e-03	3.36e-03	2.54e-03	2.54e-03	1.08e-03	1.08e-03	1.08e-03	1.08e-03	1.08e-03	6.07e-04	1.06e-04	5.85e-05	.4.35e-05	5.85e-05	5.32e-06	2.00e-08	1.46e-08	7.73e-09

Que	SO	Z Z	DR	א א	38	ဂ္ဂ	88	88	88	ဂ	P	R S	RA A	RP R	2 2	₽,	₽₽	₽?	7 7 7 7	8	გ	20	GN GN E		ğ	3 5	A t	RESULT
Query Match 69.8%; Score 1014; DB 1; Length 188;	CHAIN 21 188 VASCULIAR ENDOTHELIAL GROWTH FACTOR B. SEQUENCE 188 AA; 21261 MW; 35EA8904 CRC32;	N; GROWTH FACTOR; SIGNA	MIM; 601398;	EMBE; U43369; G1216398;	IMILARITY: BELONGS TO THE PDGF/VEGF FAMILY OF GROU		-1- TISSUE SPECIFICITY: EXPRESSED IN ALL TISSUES EXCEPT LIVER			-!- FUNCTION: GROWTH FACTOR FOR ENDOTHELIAL CELLS. BINDS HEPARIN.	GENOME RES. 6:122-129(1996).	WARD I. HAYWARD M. WERER G.	, ,	SEQUENCE FROM N.A.	PROC. NATL. ACAD. SCI. U.S.A. 93:2576-2581(1996).	, PETTERSSON R.F., ALITALO K., ERIKSSON		MEDLINE; 96197355.	SHOTHNON FROM N P			HOMO SAPIENS (HUMAN).	VEGEB OR VRF.	ENDOTHELIAL GROWTH	(REL. 35, LAST	01-OCT-1996 (REL. 34, CREATED)	P49765;	TOB WITANI CHANDADD. DDM. 100

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MPsrch_pp protein - protein database search, using Smith-Waterman algorithm

Tabular output not generated. Run on: Fr1 Sep 18 13:30:29 1998; MasPar time 9.90 Seconds 763.780 Million cell updates/sec

Description:
Perfect Score:
Sequence: >US-08-765-588-4 (1-207) from US08765588.pep 1452

1 MSPLLRRLLLAALLQLAPAQ......PGPAAAAADAAASSVAKGGA 207

Scoring table: PAM 150 Gap 11

Searched: 120441 segs, 36531193 residues

Post-processing: Minimum Match 0% Listing first 45 summaries

Database:

pir56 1:pir1 2:pir2 3:pir3 4:pir4 5:nrl3d

Statistics: Mean 42.396; Variance 117.569; scale 0.361

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	19 180 20 179	٠.	٠.	15 189		12 29	11 30	10 35	9 35	8 36	. 7 36	. 6 . 36	. 5 37	4 371	. 3 . 37	. 2 93	· 1 1319	No. Score
	9 12.4	•							8 24.7	•		25.	25.		25.	64.	90.	Query e Match Length
241	241 185																	ength DB
1 PFMSGB	1 PFHUG2 2 S58383	2 A55030	2 138108	2 \$25097	ייי ו	_				2 \$57956			2 A44881			2 JC4680	2 JC4679	B ID
<pre>platelet-derived grow platelet-derived grow</pre>	<pre>platelet-derived grow hypothetical protein</pre>	platelet-derived grow	platelet-derived grow	vascular endotherial platelet-derived grow	\vdash	vascular endothelial	placental growth fact	vascular endothelial	vascular endothelial	ovine vascular endoth			vascular endothelial	glioma-derived vascul	vascular endothelial	vascular endothelial	vascular endothelial	Description
ហហ	4.12e-09 5.47e-09	4.12e-09	4	3.18e-10	6.17e-22	7.91e-24	1:35e-2	4.43e-3	8.91e-	3.40e-	1.30e-3	4.94e-3	1.36e-3	1.36e-	7.14e-	1.15e-	3.19e-17	Pred. No

								(.)		f.11		1.3	٠.,	۲.,	٨,	.,	٨,			
ហ៊ី	A 4.	ເວ	ï	ö	õ	ã	7	õ	ũ	4	ũ	ວ	Ξ	õ	ğ	ĕ	7	6	ĭš	4
135	72. 7.5.T	136	139	141	145	153	153	153	153	161	163	163	.163	164	166	165	172	171	174	175
φ. ω.	0 4	9.4	9.6	9.7	10.0	10.5	10.5	10.5	10.5	11.1	11.2	11.2		11.3	11.4	11.4	11.8	11.8	12.0	12.1
377	4 0 4	416	442	106	196	473	68	66	63	196	226	215	200	196	271	197	211	198	148	419
N) N	–	ν	N	N	N	G	σı	u	N	N	N	2	N	N	N	ب	N	N	N
A48018	S15921	SKXLAG	S50062	A49227	A48851	S50755	1PDGA2	1PDGC2	1PDGB2	A37359	151550	S08220	I51551	B28964	A25669	S25096	PFHUG1	JS0735	D49530	S69207
mucin 7 precursor, sa	٠VT	윥	cell wall glycoprotei	sialidase - Actinomyc	platelet-derived grow		Platelet-derived grow	PDGF-related transfor	platelet-derived grow	<pre>platelet-derived grow</pre>	platelet-derived grow	16K vascular endothel	vascular endothelial							
8.27e-04	4.946-04	6.39e-04	2.94e-04	1.74e-04	6.08e-05	7.18e-06	7.18e-06	7.18e-06	7.18e-06	8.17e-07	4.72e-07	4.72e-07	4.72e-07	3.59e-07	2.07e-07	2.72e-07	3.90e-08	5.16e-08	2.23e-08	1.69e-08

21 QCECRPKKKESAVKPDRVAIPHHRPQPRSVPGWDSTPGASSPADIIHPTPAPGSSARLAP 180 	Db 121 QCEC
MGTVAKQLVPSCYTVQRCGGCCPDDGLECVPTGQHQVRMQILMIRYPSSQLGEMSLEEHS	Qy 61 MGTV
	Db 61 MGNV
1 MSPLLRRLLLVALLQLARTQAPVSQFDGPSHQKKVVPWIDVYARATCQPREVVVPLSMEL 60	
Query Match 90.8%; Score 1319; DB 2; Length 207; Best Local Similarity 87.0%; Pred. No. 3.19e-175; Matches 180; Conservative 17; Mismatches 10; Indels 0; Gaps 0;	Query Match Best Local S Matches 18
#length 207 #molecular-weight 21914 #checksum 1525	SUMMARY
07 #product	22-207
#4) 1345 1455 1006 0100	FEATURE 1-31
S	KEYWORDS
e vrf	#gene
	GENETICS
endothelial growth factors 167 and 186.	Ф:
and belongs to a family of growth factors. This transcript is differentially spliced to produce two major isoforms, vascular	Ω. α
111	COMMENT Thi
#cro	#cro
_type mRNA	##molecu
sion JC4679	#accession
Ω	#title
rnal Biochem, Biophys. Res. Commun. (1996) 220:922-928	#journal
TC	#authors
JC4679	REFERENCE
	ACCESSIONS
10	DATE
E_NAMES VRF 186 prof	ALTERNATE_NAMES
JC4679 #type complete	ENTRY
	RESITE 1

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难知她的话,我们就没有一个,我们们们们的,我们就是一个,我们的人们的,我们就是一个,我们的人们的人们的人们的人们的人们的人们的人们的人们的人们的人们的人们的人们	
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Run on: MPsrch_pp protein - protein database search, using Smith-Waterman algorithm Fr1 Sep 18 13:28:23 1998; MasPar time 7.27 Seconds 460.975 Million cell updates/sec

Tabular output not generated.

Title: Description: Perfect Score: >US-08-765-588-4 (1-207) from US08765588.pep 1452

Sequence: 1 MSPLLRRLLLAALLQLAPAQ......PGPAAAAADAAASSVAKGGA 207

Scoring table: PAM 150 Gap 11

Searched: 131922 seqs, 16180660 residues

Post-processing: Minimum Match 0% Listing first 45 summaries

Database:

:part1 2:part2 3:part3 4:part4 5:part5 6:part6 7:part7
:part8 9:part9 10:part10 11:part11 12:part12 13:part13
i:part14 15:part15 16:part16 17:part17 18:part18
i:part19 20:part20 21:part21 22:part22 23:part23
i:part24 25:part25 26:part26 27:part27 28:part28

Statistics: Mean 31.715; Variance 158.417; scale 0.200

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

10 9 8 7 6 5 4 3 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Result
1452 1452 1319 1319 11114 10123 10023 10014 938 997 897 749 389 389	Score
100 0 100 0 0 100 0 0 0 0 0 0 0 0 0 0 0	Query Match
207 207 207 207 207 207 221 1143 1188 1188 1188 1188 1183 1195 100 101 101 100 100 100 100 100 100 10	Length
1188831911911911919	DB
W00725 W004831 W004830 W00863 W007611 W00727 W00726 W004826 W004826 W004826 W004828 W004828 W004828 W005886 W005886	Ħ
Vascular endothelial Vascular endothelial Vascular endothelial Murine VRF186. Human vascular endoth Vascular endothelial Fibrosarcoma vascular Heart vascular endoth Murine VRF167. Vascular endothelial Heart vascular endoth Murine VRF167. Vascular endothelial Heart vascular endothelial SAP-AlaMet-VEGF121. SAP-AlaMet-VEGF121(Gl SAP-AlaMet-VEGF121(Gl	Description
5.23e-111 5.23e-111 5.23e-111 6.70e-99 6.70e-99 3.11e-82 3.11e-82 9.33e-74 9.33e-74 9.33e-74 9.33e-66 7.23e-66 7.23e-64 7.23e-64 7.23e-64 7.23e-64 7.23e-64 7.23e-64 7.23e-64 7.23e-64 7.23e-64 7.23e-64 7.23e-64 7.23e-64 7.23e-64 7.23e-64 7.23e-64 7.23e-64 7.23e-64 7.23e-64 7.23e-64 7.23e-64 7.23e-64 7.23e-64 7.23e-64 7.23e-64	Pred. No.

Query Match 100.0%; Best Local Similarity 100.0%; Matches 207; Conservative

Score 1452; DB 19; Length 207; Pred. No. 5.23e-111; o; Mismatches 0; Indels 0

Indels 0;

Gaps 0;

45	44	ω	42	41	40	39	38	37	36	35 5	34	ω ω	32	31	30	29	28	27	26	25	24	23	22	21	20	19
373	373	373	374	374	374	374	375	375	374	377	378	378	379	379	381	381	381	381	382	382	382	382	382	383	383	383
25.7		•	•	•	•	25.8	•	•	•	•	٠	•		•	•	•	26.2	٠	•		•				26.4	
232							214	214			121	121													146	146
8 +		6	8	8	18	8	u	4	18	27	7	ω	8	16	8	18	18	8	8	18	8	18	18	18	4	u
R94004	R05102	R91077	W00596	R94074	W00585	R94072	R27355	R22351	R94040	W38234	R42607	R11385	R94001	R91075	W00593	W00591	W00592	œ			W00587	R94071	R94032	W00595	R22348	R27354
0	Vaccular	Human vascular endoth		_	g	$\overline{}$	vascul	Alternative form of V	s+2.	a		Human vascular endoth		~	-VEGF165	SAP-AlaMet-VEGF165(G1	-AlaMet-VEGF165	SAP-AlaMet-VEGF165.	(Gly4Ser)2VEGF121	(Gly4Ser)VEGF121(F12	SAP(Gly4Ser)VEGF121.	VEGF121 Cys+2.	SAP-GlySer-VEGF165(Gl	Ψe	Sequence of vascular
	510-0	51e-2	.08e-2	.08e-2	.08e-2	08e-2	.73e-	.73e-2	.08e-2	.19e-	.88e-2	.88e-2	.20e-2	.20e-2	5e-2	.65e-2	65e-2	. 65e-		.69e-	. 69e-	.69e-	.69e-	.89e-	Ģ	.89e-

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g	can be produced in host cells transformed with vectors carrying SOM175 cDNA (see also T33610). It is useful for inducing astroglial	(W00726-28) of SOM175 have also been identified. Recombinant SOM175	in intracellular levels of alkaline phosphatase. It shows 33.3%	and of inducing cell migration, cell survival and/or an increase	endothelial cells, of interacting with fit-1/fkl-1 receptors	Human vascular endothelial growth factor (VEGF)-like polypeptide (W00725) is capable inducing the proliferation of vascular	Claim 11; Page 41; 113pp; English.	survival	ဋ္ဌ	New growth factor related to vascular endothelial growth factor -	N-PSDB; T33610.	WPI; 96-412774/41.			н				22-FEB-1996; AU0094.	06-SEP-1996.	W09627007-A1.		peptide 121	Key Location/Qualifiers	Homo sapiens.		Vascular endothelial growth factor; VEGF; VEGF165; SOM175; neuron;		30-NOV-1996 (first entry)	W00725;		

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Run on: MPsrch_pp protein - protein database search, using Smith-Waterman algorithm

Tabular output not generated. Fri Sep 18 13:58:22 1998; MasPar time 7.36 Seconds 577.863 Million cell updates/sec

Description: Perfect Score: Sequence: Title: >US-08-765-588-10 (1-101) from US08765588.pep 754 1 MSPLLRRLLLAALLQLAPAQ......CPDDGLECVPTGQHQVRMQT 101

Searched: 14:0555 seqs, 42109429 residues Scoring table:

PAM 150 Gap 11

Post-processing: Minimum Match 0% Listing first 45 summaries

Database:

1:sp_fungi 2:sp_human 3:sp_invertebrate 4:sp_mammal 5:sp_mhc 6:sp_organelle 7:sp_phage 8:sp_plant 9:sp_bacteria 10:sp_rodent 11:sp_virus 12:sp_vertebrate 13:sp_unclassified

Statistics: Mean 38.781; Variance 69.409; scale 0.559

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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		•		
16 18 19 20	154	11 10 8 8	σισι4εω	Result No.
129 112 93 89 87	150	229 206 170 170	361 256 240 240	Score 749 682
17.1 14.9 12.3 11.8 11.5	21.8 20.3 19.9	27.3 22.5 22.5	47.9 34.0 31.8 31.8	Query Match 99.3
183 126 411 571 411	326 210 185 271	216 158 358 415	116 232 148 194	Query Match Length 99.3 207 90.5 207
8980	1240	104012	10 12 12	DB 10
Q63740 Q35757 Q38946 Q51763 Q04937	035251 029613 0215354 041283	Q91420 Q63434 Q18843 P97946 P97953	035485 Q16889 042571 042572	ID Q16528 Q64290
POGF PROTEIN (FRAGMENT VASCULAR ENDOTHELIAL G GLOTAMATE DEHYDROGENAS ISI162 DNA. NADH GLUTAMATE DEHYDRO	VASCULAR ENDOTHELIAL (C-SIS ONCOGENE (PLATEI C-SIS PROTO-ONCOGENE POLYPROTEIN PRECURSOR	VASCULAR ENDOTHELIAL (PLACENTA GROWTH FACTO) VASCULAR ENDOTHELIAL (VASCULAR ENDOTHELIAL (VASCULAR ENDOTHELIAL (Description VEGF RELATED FACTOR IS VASCULAR ENDOTRELIAL (
1.31e-07 G 1.00e-04 S 9.68e-02 3.75e-01 O 7.27e-01	NNOU	G 8.66e-27 R 3.78e-22 G 4.06e-15 G 4.06e-15	G 9.20e-55 G 2.39e-32 G 4.85e-29 G 4.85e-29	Pred. Nos 2.19e-142 G 5.75e-127

밁

1 MSPLLRRLLLAALLQLAPAQAPVSQPDAPGHQRKVVSWIDVYTRATCQPREVVVPLTVEL 60

0; Mismatches 0;

Indels

0; Gaps

0;

Matches

100; Conservative

` 44 5	43 43	41	40	ມ ຜິ	37	36	3 5	3 4	33	32	31	30	29	28	27	26	25	24	23	22	21
882	8 8 2 3	83	8 0	υ 60	83	83	83	83	83	83	83	83	83	84	85	85	85	85	85	86	86
10.9	11.0 10.9			11.0		•	•		•	•	11.0	11.0	11.0	11.1	11.3	11.3	11.3	11.3	11.3	11.4	11.4
619 684	4127	4096	1031	396	394	394	393	393	393	393	393	393	393	641	423	412	411	411	411	605	394
20	12	N	ω (υo	ø	9	9	9	ø	9	g	9	9	10	0	8	æ	œ	œ	N	9
Q62309 Q14050	P78527 003822	Q13327	009489	046406	Q46408	006020	Q46409 ·	Q46415	046411	Q46414	Q46412	Q46410	Q46413	Q08463	P97569	P93541	004871	Q43260	004872	000304	P96447
	ы	DNA DEPENDENT PROTEIN	ORGANELLE-TYPE CALCIUM	+1	MAJOR OUTER MEMBRANE P	MAJOR OUTER MEMBRANE P	MEMBRANE	MEMBRANE	(INDIVIDUAL ISOLATE 98	MAJOR OUTER MEMBRANE P	MAJOR OUTER MEMBRANE P	MAJOR OUTER MEMBRANE P	(INDIVIDUAL ISOLATE 11	FRIZZLED PROTEIN HOMOL	KALLISTATIN.	GLUTAMATE DEHYDROGENAS	GLUTAMATE DEHYDROGENAS	GLUTAMATE DEHYDROGENAS	GLUTAMATE DEHYDROGENAS	VOLTAGE-DEPENDENT CALC	EXPA6.
	2.65e+00 3.64e+00		2.65e+00		•		٠		٠		2.65e+00	2.65e+00		1.93e+00		1.40e+00	1.40e+00	1.40e+00	1.40e+00	1.01e+00	1.01e+00

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ē	SO	ĦΤ	Ħ	Š	DR	DR	DR	R	RA A	RA	RX	RC	ŖΡ	RN	RL	RA A	R X	RC	RΡ	RN	R.	₽₽	RΑ	RΑ	R	ŖΡ	RN	გ	8	တ္တ	GN G	띮	D I	3 5	ě	3 5	RESU	
Onerv Match 00 39. Com 740. To 3. Tongth 307.	SEQUENCE 207 AA; 21602 MW; 16BDF6F1 CRC32;	CHAIN 22 207	SIGNAL 1	SIGNAL.	PROSITE; PS002	EMBL; U52819;	EMBL; U43368;		ERIKSSON U.;	OLOFSSON	(MEDLINE; 96325041.	TISSUE-F	SEQUENCE FROM N.A.	(3)		OLOFSSON		TISSUE-F		[2]	GENOME RES.	HAYWARD N., WEBER G.;	POLLOCK P., GOTLEY D., CARSON E., RAKAR S., NORDENSKJOLD M., WAR		TISSUE-BRAIN;			EUTHERIA; PRIMATES.	EUKARYOTA; METAZOA;		VRF OR VEGF-B.	VEGF RELATED FACTOR ISOFORM	01-JAN-1998 (TREMBLREL, 05,	O1-NOV-1996 (TREMBURE). O1. LAST SECTIONS HODATES	OT SOLE TOOK SEPTEMBER OF		SULT 1	

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MPsrch_pp protein - protein database search, using Smith-Waterman algorithm

Run on: Fri Sep 18 13:57:41 1998; MasPar time 4.15 Seconds 610.764 Million cell updates/sec

.. Tabular output not generated.

Description:
.Perfect Score:
.Sequence: >US-08-765-588-10 (1-101) from US08765588.pep 754

1 MSPLLRRLLLAALLQLAPAQ......CPDDGLECVPTGQHQVRMQT 101

Scoring table: PAM 150 Gap 11

Searched: 69111 seqs, 25083644 residues

Post-processing: Minimum Match 0% Listing first 45 summaries

Database: swiss-prot35 1:swiss1

Statistics: Mean 40.632; Variance 65.664; scale 0.619

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result	Score	Query Match 1	Length I	BE	Ħ	Description	Pred. No.
–	749	99.3	188	μ;	VEGB_HUMAN	VASCULAR ENDOTHELIAL G	9.02e-157
N	682	90.5	188	Н	VEGB_MOUSE	,-	
ω	256	34.0	215	Н	VEGE_HUMAN	٠.	1.71e-35
4	249	33.0	190	_	VEGF_PIG	VASCULAR ENDOTHELIAL G	6.68e-34
5	244	32.4	190	μ	VEGF_RAT	VASCULAR ENDOTHELIAL G	9.07e-33
o	240	31.8	190	1	VEGF_BOVIN	VASCULAR ENDOTHELIAL G	7.25e-32
7	240	31.8	214	Н	VEGF_MOUSE	VASCULAR ENDOTHELIAL G	7.25e-32
80	235	31.2	146	۳	VEGF_SHEEP	VASCULAR ENDOTHELIAL G	9.66e-31
9	232	30.8	133	-	VEGH_ORFN2	VASCULAR ENDOTHELIAL G	4.55e-30
10	229	30.4	164	μ	VEGF_CAVPO	VASCULAR ENDOTHELIAL G	2.13e-29
11	218	28.9	170	1	PLGF_HUMAN	PLACENTA GROWTH FACTOR	5.93e-27
12	209	27.7	158	-	PLGF_MOUSE	PLACENTA GROWTH FACTOR	5.67e-25
13	172	22.8	148	μ	VEGH_ORFN7	VASCULAR ENDOTHELIAL G	4.73e-17
14	166		419	μ	VEGC_HUMAN	VASCULAR ENDOTHELIAL G	8.31e-16
15	160	21.2	128	۳	VEGF_COTJA	VASCULAR ENDOTHELIAL G	1.42e-14
16	157	20.8	225	۲	PDGB_RAT	PLATELET DERIVED GROWT	5.77e-14
17	. 153	20.3	245	Н	PDGB_FELCA	PLATELET-DERIVED GROWT	3.71e-13
18	152	20.2	241	μ	PDGB_MOUSE	PLATELET - DERIVED GROWT	5.89e-13
19	150	19.9	226	Н	TSIS_SMSAV	PDGF-RELATED TRANSFORM	1.48e-12
20	150	19.9	241	-	PDGB_HUMAN	PLATELET-DERIVED GROWT	1.48e-12
21	149	19.8	241	μ.	PDGB_SHEEP	PLATELET-DERIVED GROWT	2.35e-12
22	138	18.3	213	ا	PDGA_RABIT	PLATELET - DERIVED GROWT	3.42e-10
23	132	17.5	211	j	PDGA_MOUSE	PLATELET-DERIVED GROWT	4.88e-09

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MSPLLRRLLLAALLQLAPAQAPVSQPDAPGHQRKVVSWIDVYTRATCQPREVVVPLTVEL 60

TESULT 1 ID VEGB_HUMAN STANDARD; AC P44765; AC P44765; DT 01-CCT-1996 (REL. 34, CREATED) DT 01-CCT-1996 (REL. 35, LAST SEE DE FACTOR). GN VEGFB OR VRF. RA SEQUENCE FROM N.A. RX MEDLINE; 96197355. RA SAKSELA O., ORBANA A., PETTERR RA POCLOCK P. CARSON N.A. RA POCLOCK P. CARDUSOLA K., KAII RA POLLOCK P. ACAD. SCI. U.S.A. RA

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MPsrch_pp protein - protein database search, using Smith-Waterman algorithm

Run on: Fri Sep 18 13:56:46 1998; MasPar time 6.34 Seconds 582.395 Million cell updates/sec

Tabular output not generated.

Title:

Description: Perfect Score: Sequence: >US-08-765-588-10 (1-101) from US08765588.pep 754 1 MSPLLRRLLLAALLQLAPAQ......CPDDGLECVPTGQHQVRMQT 101

Scoring table: PAM 150 Gap 11

Searched: 120441 segs, 36531193 residues

Post-processing: Minimum Match 0% Listing first 45 summaries pir56 1:pir1 2:pir2 3:pir3 4:pir4 5:nrl3d

Database:

Statistics: Mean 38.722; Variance 77.276; scale 0.501

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

23	17 18 19 20	12 14 16	111098	ผพนพอเ	Result No.
150 150	157 153 152 150	218 206 172 166		256 256 249 240 240	Score 682
19.9 19.9		28.9 27.3 22.8 22.0 21.2	31.8 30.6 30.1	90.5 34.0 33.0 32.4 31.8	Query Match
185 226 230	225 245 241	149 148 148 128	214 146 133	207 232 190 190 190	Length I
212	2222	N N N N N	เขยเก	0,00000	2
S58383 TVMVSS A55030	S25097 TVCTSS PFMSGB 138108	A41236 A56125 D49530 S69207 I51295	A44881 S57956 B49530 A33787	045214	ID JC4680
hypothetical protein PDGF-related transfor platelet-derived grow	-deri	placental growth fact placental growth fact 16K vascular endothelial vascular endothelial vascular endothelial	endothel cular en endothel endothel	O	Description vascular endothelial
5.79e-10 5.79e-10 5.79e-10	ων H ω	8.17e-22 1.19e-19 1.13e-13 1.20e-12 1.24e-11	7.68e-26 6.41e-25 3.48e-24 1.88e-23	9.95e-114 8.21e-29 1.65e-27 1.40e-26 7.68e-26 7.68e-26	Pred. No.

: .

TITLE

vascular endothelial growth factor-related factor 186 - mouse

4 4 4 D	43	42	41	40	39	38	37	36	35	34	ω 3	32	31	30	29	28	27	26	25	24
80 00	90	90	91	91	91	112	128	130	130	130	131	131	131	133	133	133	138	138	150	150
11.7	11.9	11.9	12.1	12.1	٠	14.9	17.0		17.2		17.4	17.4	17.4		17.6				19.9	
604	539	537	493	411	36	196	196	226	215	200	211	197	196	68	66	63	198	166	271	241
2 7	i)	Ν	N	N	N	N	N	N	N	N	μ	N	Ν	u	S	u	N	ν	N	H
A34231 A42044	A40581	B40581	S34775	S54797	A60706	A48851	A37359	I51550	S08220	I51551	PFHUG1	S25096	B28964	1PDGA2	1PDGC2	1PDGB2	JS0735	JN0248	A25669	PFHUG2
suffice reductase (NA beta subunit of L-typ	_		nicotinic acetylcholi	glutamate dehydrogena	vascular endothelial	platelet-derived grow	_	Platelet-derived grow	platelet-derived grow	platelet-derived grow	PDGF-related transfor	platelet-derived grow								
1.25e+00 1.25e+00	6.84e-01	6.84e-01	5.05e-01	5.05e-01	5.05e-01	5.56e-04	2.02e-06	9.83e-07	9.83e-07	9.83e-07	6.84e-07	6.84e-07	6.84e-07	3.30e-07	3.30e-07		5.24e-08		5.79e-10	5.79e-10

TC/680
ALTERNATE_NAMES VRF 167 protein ORGANISM #formal name Wischillis #common name house mouse
10
ACCESSIONS JC4680
#authors Townson, S.; Lagercrantz, J.; Grimmond, S.; Silins, G.;
Nordenskjoeld, M.; Weber, G.;
#Journal stochem. stophys. kes. commun. (1996) 220:928-928 #title Characterization of the murine VEGE-related factor gene.
sion
ule_type
##residues 1-188 ##label TOW
COMMENT This factor is a mitogen, that is selective for endothelial cells,
endothelial growth factors 167 and VEGF 186.
#1ntrons 137/2
22-188 #product vascular endothelial growth factor-related factor #status predicted #label MAT
SUMMARY #length 188 #molecular weight 21442 #checksum 5881
; Score 682; DB 2; ; Pred. No. 9.95e-1:
Db 1 MSPLIRRILIVALIDIARTOADVSOFDGDSHOKKVVDWTDVVARATGODREVVVDISMET. 60
QY 1 MSPLIKRLILAALIQIAPAQAPVSQPDAPGHQRKVVSWIDVTTRATCQPREVVVPLTVEL 60
Db 61 MCNVVKQLVPSCVTVQRCGGCCPDDGLECVPTGQHQVRMQ 100
QY 61 MGTVAKQLVPSCVTVQRCGGCCPDDGLECVPTGQHQVRMQ 100
T 2
ENTRY JC46/9 #type complete

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MPsrch_pp protein - protein database search, using Smith-Waterman algorithm

Run on: Fri Sep 18 13:55:32 1998; MasPar time 4.82 Seconds 339.293 Million cell updates/sec

Tabular output not generated.

Title: >US-08-765-588-10 (1-101) from US08765588.pep 754

Description:
Perfect Score:
Sequence: 1 MSPLLRRLLLAALLQLAPAQ......CPDDGLECYPTGQHQVRMQT 101

Scoring table: PAM 150 Gap 11

Searched: 131922 seqs, 16180660 residues

Post-processing: Minimum Match 0% Listing first 45 summaries

Database:

a-geneseq32
1:part1 2:part2 3:part3 4:part4 5:part5 6:part6 7:part7
8:part8 9:part9 10:part10 11:part11 12:part12 13:part13
14:part14 15:part15 16:part16 17:part17 18:part18
14:part19 20:part20 21:part21 22:part22 23:part23
24:part24 25:part25 26:part26 27:part27 28:part28

Statistics: Mean 28.818; Variance 119.725; scale 0.241

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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ch 1 Sim	Survival Claim 14; Page 48 Splice variants (V factor-like polype cDNA clones (see 647, and exon 4 of least 1 of the pro proliferation of v fit-l/fik-l recept and/or an increase Recombinant SOM1/2; proliferation and Sequence 101 AA,	weber G; WPI; 96-412774/41. N-PSDB; T33613. New growth factor useful for inducin	06-SEP-1996. 06-SEP-1996. 22-FEB-1996; 02-MAR-1995; 20-NOV-1995; 22-DEC-1995; 24-DEC-1995; CAMRA-) AMRAI Grimmond S,	
llarit Cons	age 48; ants (W polype (see a) on 4 of the pro on of v recept ncrease SOM175 on and 101 AA;	774/41 513. factor	AU-0094 AU-001 AU-006 AU-006 AU-007 AU-007 AU-00ERA	dard; (fir (fir dothel dothel prolif s. L
Match 100.0%; Local Similarity 100.0%; nes 101; Conservative	Survival Claim 14; Page 48; 113pp; English. Splice variants (W00726-28) of the factor-like polypeptide SOM175 (see CDNA clones (see also T33611-13) r 6+7, and exon 4 of the SOM175 gene least 1 of the properties of SOM17 proliferation of vascular endothel fit-l/fik-l receptors, and to indu and/or an increase in intracellula Recombinant SOM175 proteins can be proliferation and to promote neura Sequence 101 AA;	relat	7-A1. 1996; AU0094. 1995; AU-001457. 1995; AU-006647. 1995; AU-007274. AMRAD OPERATIONS	## 1 ##00728 standard; Protein; 101 AA. ##00728; 30-NOV-1996 (first entry) Vascular endothelial growth factor- Vascular endothelial growth factor, astroglial proliferation. ### Rey ### Location/Qualifiers ### Proceeding
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754; DB 19; NO. 8.29e-64; Mismatches 0	Survival Claim 14; Page 48; 113pp; English. Splice variants (W00726-28) of the human vascular endothelial growt factor-like polypeptide SGM175 (see also W00725) are products of cDNA clones (see also T33611-13) respectively lacking exon 6, exons 6+7, and exon 4 of the SGM175 gene (see also T33610). They show at least 1 of the properties of SGM175 including the ability to induce proliferation of vascular endothelial cells, to interact with fit-l/fik-l receptors, and to induce cell migration, cell survival and/or an increase in intracellular levels of alkaline phosphatase. Recombinant SGM175 proteins can be used to induce astroglial proliferation and to promote neural survival and/or proliferation. Sequence 101 AA;	weber G; WPI; 96-412774/41. N-PSDB; T33613. New Prowth factor related to vascular endothelial growth factor - useful for inducing astroglial proliferation and promoting neuronal	C,	l AA. factor-like protein SOMI factor; VEGF; SOM175-e4; llifiers
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Run on: MPsrch_pp protein - protein database search, using Smith-Waterman algorithm Fri Sep 18 14:00:02 1998; MasPar time 7.25 Seconds 441.000 Million cell updates/sec

Tabular output not generated.

Description: Perfect Score: Sequence: Title: >US-08-765-588-10 (1-101) from US08765588.pep 754 1 MSPLLRRLLLAALLQLAPAQ......CPDDGLECVPTGQHQVRMQT 101

Scoring table: PAM 150 Gap 11

Searched: 288199 seqs, 31643258 residues

Post-processing: Minimum Match 0% Listing first 45 summaries

Database:

1:P9 2:U60 3:U7 4:U80 5:U81 6:U82 7:U83 8:U84 9:U85 10:U86 11:U87 12:U88 13:U89 14:U90 15:U91 16:NEWP 17:NEWU6 18:NEWU7 19:NEWU8 20:NEWU9

Statistics: Mean 28.480; Variance 119.199; scale 0.239

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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equence 11, Application United No. 5607918 GENERAL INFORMATION: APPLICANT: Eliksson, DAPPLICANT: Alitalo, KA APPLICANT: Alitalo, KA APPLICANT: Pajusola, KA TITLE OF INVENTION: VA TITLE OF INVENTION: DA TELEPHONES: TORM MEDIOM TYPE: Floppy COMPUTER REALABLE FORM MEDIOM TYPE: Floppy COMPUTER: PATENTION NUMBER: FILING DATE: 01-70 OPERATION TORMET APPLICATION NUMBER: FILING DATE: 01-70 OPERATION NUMBER: CC TELEPHONE: (10 CC CC CC TELEPHONE: (10	469-42 ce 11,
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US/08469427A Ulf Birgitta dari Katri Jordan Jord	ANDARD; P
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